



**JOHN F. KENNEDY
SPACE CENTER**

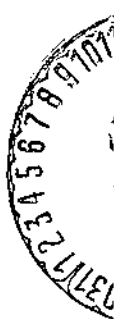
(NASA-TM-X-69142) SKYLAB 2 SPACE VEHICLE
DATA EVALUATION GUIDE (NASA) 92 p HC
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SKYLAB 2

SPACE VEHICLE

DATA EVALUATION GUIDE



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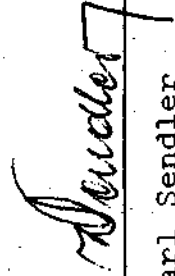
SPACE VEHICLE

DATA EVALUATION GUIDE

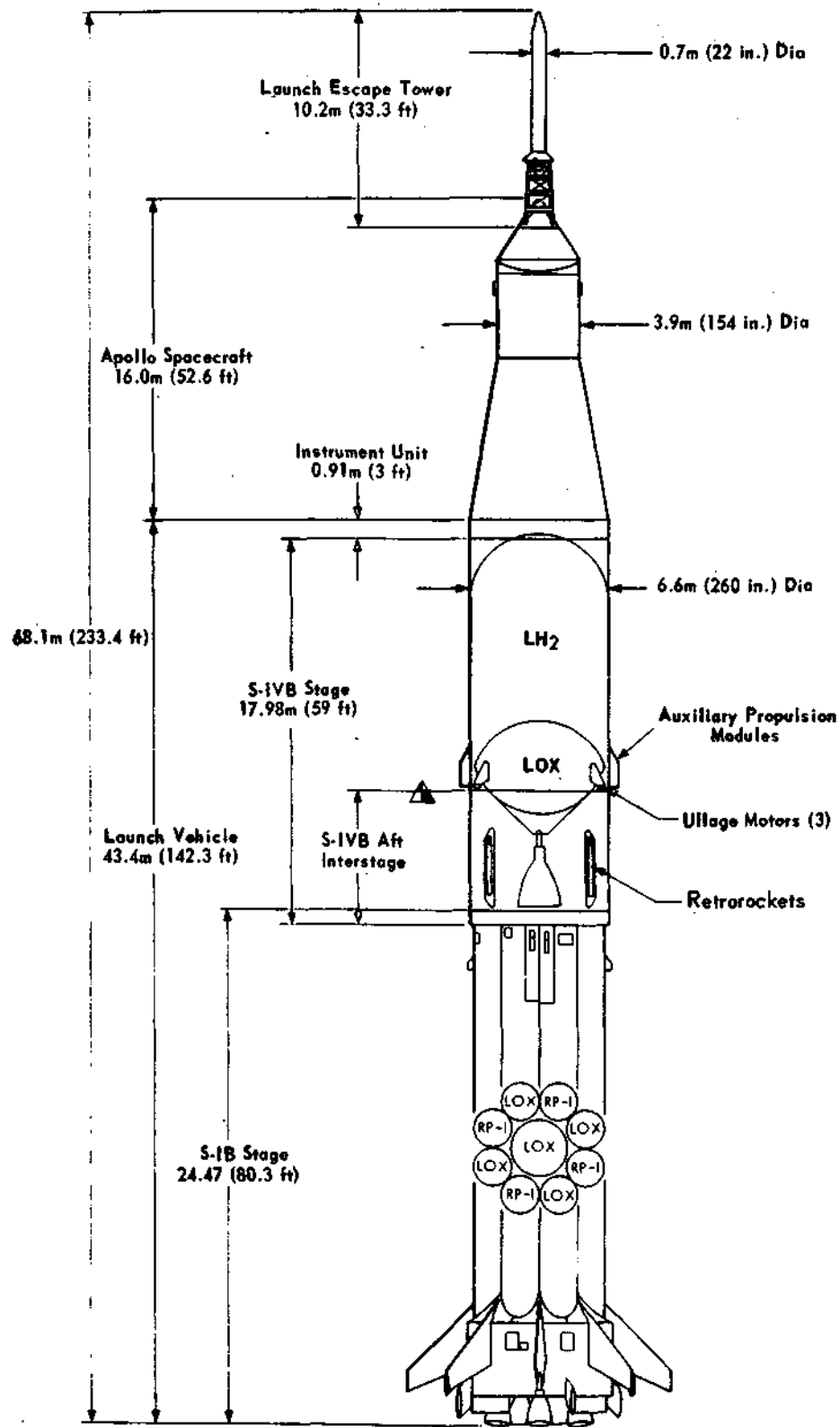
APPROVED BY:



Dr. R. H. Bruns, Chief
Computer Systems Division



Karl Sendler
Director, Information Systems



NOTE: ① Retromotors are used for S-IB retrograde acceleration. ▲ Flight Separation

APOLLO/SATURN IB CONFIGURATION

LIST OF EFFECTIVE PAGES

The total number of pages in this publication is 93, consisting of the following:

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Original 22 Dec 72		i - iv 1 - 15	
	C	1 - 16	Calibration Tape - Rev. 3
	D	1 - 18	Calibration Tape - Rev. 6
	G	1 - 19	Calibration Tape - Rev. 15
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SKYLAB 2 SPACE VEHICLE MEASUREMENT SUMMARY

SYSTEM	S-IB	S-IVB	IU	CSM
ACCELERATION	3	1	4	3
ACOUSTICS	0	0	0	0
ANGULAR VELOCITY	3	0	26	0
FLOW	0	4	3	0
GUIDANCE + CONTROL	0	0	37	0
LIQUID LEVEL	9	5	0	0
MISCELLANEOUS	4	14	0	40
POSITION	0	8	12	13
PRESSURE	64	69	10	52
RF + TELEMETERING	0	0	10	0
RPM	8	2	0	0
SIGNALS	104	74	62	89
STRAIN	8	0	0	0
TEMPERATURE	84	49	43	78
VIBRATION	6	0	0	0
VOLTS, AMPS + FREQ	21	29	25	51
TOTAL	314	255	232	326

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INTRODUCTION

THIS PUBLICATION CONTAINS VEHICLE TELEMETRY MEASUREMENTS FOR ALL STAGES OF SKYLAB 2. SKYLAB 2 IS COMPRISED OF LAUNCH VEHICLE AS-206 AND COMMAND SERVICE MODULE CSM-116. THE ORIGINAL INFORMATION FOR EACH STAGE WAS SUPPLIED BY THE FOLLOWING ORGANIZATIONS---

STAGE	DATA SOURCE
S-IB	THE CHRYSLER CORORATION SPACE DIVISION
S-IVB	MC DONNELL DOUGLAS ASTRONAUTICS CO.
IU	INTERNATIONAL BUSINESS MACHINES, INC.
CSM	NORTH AMERICAN ROCKWELL CORP.

REVISIONS TO THE ORIGINAL DATA ARE OBTAINED FROM THE ABOVE SOURCES AND KENNEDY SPACE CENTER ELEMENTS. THESE DATA ARE COMPILED AND EDITED BY THE COMPUTER OPERATIONS BRANCH, IN-CSD-22. THIS DOCUMENT WILL BE REVISED AS REQUIRED AND WILL REFLECT AS CLOSELY AS POSSIBLE THE ACTUAL MEASUREMENTS FLOWN ON SKYLAB 2. QUESTIONS PERTAINING TO THIS DOCUMENT SHOULD BE DIRECTED TO THE CALIBRATION CONTROL SECTION, IN-CSD-22, 867-4372

DATA EVALUATION GUIDE FORMAT

HEADING	DESCRIPTION															
MEASUREMENT NUMBER	ID NUMBER BASED ON MEASUREMENT TYPE, LOCATION AND SEQUENCE. (SEE PAGES 005 THROUGH 007)															
DISPLAY REQUEST NUMBER	CALL-UP NUMBER FOR LAUNCH CONTROL CENTER (FIRING ROOM). FOR AN ANALOG MEASUREMENT THIS NUMBER MAY BE USED TO REQUEST A CRT DISPLAY OR A STRIP CHART TRACE. FOR A BILEVEL MEASUREMENT THIS NUMBER APPLIES TO STRIP CHART CALL UP ONLY.															
PC	PROCESSING CODE WILL APPEAR IF MEASUREMENT IS TO BE PROCESSED BY THE GE 635 COMPUTER. <table><tr><th>CODE</th><th>TYPE PROCESSING</th><th>OUTPUT</th></tr><tr><td>B</td><td>BILEVEL</td><td>TAB</td></tr><tr><td>E</td><td>ENGINEERING UNITS</td><td>SC4020 PLOT + TAB</td></tr><tr><td>P</td><td>PER CENT OF FULL SCALE</td><td>SC4020 PLOT + TAB</td></tr><tr><td>G</td><td>GUIDANCE</td><td>SC4020 PLOT + TAB</td></tr></table>	CODE	TYPE PROCESSING	OUTPUT	B	BILEVEL	TAB	E	ENGINEERING UNITS	SC4020 PLOT + TAB	P	PER CENT OF FULL SCALE	SC4020 PLOT + TAB	G	GUIDANCE	SC4020 PLOT + TAB
CODE	TYPE PROCESSING	OUTPUT														
B	BILEVEL	TAB														
E	ENGINEERING UNITS	SC4020 PLOT + TAB														
P	PER CENT OF FULL SCALE	SC4020 PLOT + TAB														
G	GUIDANCE	SC4020 PLOT + TAB														
TELEMETRY CHANNEL	ID NUMBER BASED ON TELEMETRY ASSIGNMENT. (SEE PAGES 008 THROUGH 014)															
MEASUREMENT DESCRIPTION	BRIEF SUMMARY OF MEASUREMENT TYPE AND LOCATION.															
RECORD NUMBER	KSC RECORD NUMBER OF STRIP CHART ON WHICH MEASUREMENT WILL APPEAR. (SEE PAGE 004)															
TR NO	TRACE NUMBER															
RANGE/REMARKS	TRANSDUCER OPERATING RANGE IN ENGINEERING UNITS AND REMARKS. THE LCC RECORDER LOCATION CODE IS LISTED UNDER REMARKS. (SEE PAGE 004)															

LCC RECORDER LOCATION CODE FORMAT

```
EXAMPLE:
1 A 02 B W * PEN COLOR
      *   *   * B = BLUE
      *   *   * R = RED
      *   *   *
      *   *   * RECORDER PAPER SIZE
      *   *   * W = WIDE (10 INCH)
      *   *   * L = NARROW (7 INCH LEFT SIDE)
      *   *   * R = NARROW (7 INCH RIGHT SIDE)
      *   *   *
      *   *   * DRAWER LOCATION
      *   *   * A = TOP
      *   *   * B = CENTER
      *   *   * C = BOTTOM
      *   *   *
      *   *   * UNIT NUMBER (01-11)
      *   *   *
      *   *   * ROW LOCATION (ROW A - ROW F)
      *   *   *
      *   *   * FIRING ROOM (1 - 4)
```

LAUNCH VEHICLE MEASUREMENT NUMBER DESCRIPTION

EACH MEASUREMENT IS NUMBERED IN THE FOLLOWING MANNER-----SYSTEM

SEQUENCE NUMBER UNIT NUMBER

A. THE FIRST LETTER DESIGNATES THE SYSTEM

LETTER	SYSTEM	LETTER	SYSTEM
A	ACCELERATION	M	VOLTAGE, CURRENT, AND FREQUENCY
B	ACOUSTIC	N	MISCELLANEOUS
C	TEMPERATURE	R	ANGULAR VELOCITY
D	PRESSURE	S	STRAIN
E	VIBRATION	T	RPM
F	FLOW RATE	V*	ESE REQUIREMENT - AUXILIARY DISPLAY
G	POSITION	X*	ESE - LAUNCH CONTROL MEASUREMENTS
H	GUIDANCE AND CONTROL	W*	RECORD
I	GUIDANCE		HARDWARE
J	RF AND TELEMETRY		
K	SIGNAL		
L	LIQUID LEVEL		

* MEASUREMENT NUMBER PREFIXES

B. EACH MEASUREMENT OF A SYSTEM IS NUMBERED IN SEQUENCE.

C. A DASH FOLLOWS THE SEQUENCE NUMBER (BASIC MEASUREMENT NUMBER), AND THE FOLLOWING NUMERAL SHOWS THE UNIT OR STAGE IN WHICH THE MEASUREMENT ORIGINATES.

UNIT	SYSTEM
1-99	S-1B
400-499	S-1VB STAGE
600-699	INSTRUMENT UNIT
700-999	APOLLO SPACECRAFT

SAMPLE MEASUREMENT NUMBERS

B0500-008 THE 500TH ACOUSTIC SYSTEM MEASUREMENT LOCATED IN THE S-1B STAGE
H0010-603 THE 10TH GUIDANCE AND CONTROL MEASUREMENT LOCATED IN THE INSTRUMENT UNIT
VK0001-412 THE 1ST SIGNAL MEASUREMENT LOCATED IN THE S-1VB STAGE AND DISPLAYED ON AN ESE PANEL

APOLLO MEASUREMENT NUMBER DESCRIPTION:

EACH MEASUREMENT IS NUMBERED IN THE FOLLOWING MANNER-----LOCATION SYSTEM SEQUENCE NUMBER CLASSIFICATION

A. THE FIRST LETTER (MODULE CODE) DESIGNATES THE MEASUREMENT LOCATION BY MODULE.

LETTER	LOCATION	LETTER	LOCATION
A	ADAPTER - NAR	J	VEHICLE STIMULI - GAC
B	BOOSTER - NAR	K	GSE COMMAND OR STIMULI - NAR
C	COMMAND MODULE - NAR	L	LAUNCH ESCAPE TOWER - NAR
D	GSE COMMAND OR STIMULI - GAC	N	GSE AUX. OR CHECKOUT EQUIPMENT - GAC
E	GSE SERVICE EQUIPMENT - GAC	Q	GAC FACILITY - GAC
F	GSE SERVICE EQUIPMENT - NAR	R	ACE MONITORED REDUNDANT MEAS. - GAC
G	LUNAR MODULE - GAC	S	SERVICE MODULE - NAR
H	GSE AUX. OR CHECKOUT EQUIPMENT - NAR	U	ACE MONITORED REDUNDANT MEAS. - GAC

B. THE SECOND LETTER (FUNCTIONAL SYSTEM CODE) DENOTES THE SYSTEM WITHIN WHICH THE MEASUREMENT ORIGINATES.

LETTER	SYSTEM	LETTER	SYSTEM
A	STRUCTURES - GAC + NAR	L	SCIENTIFIC EQUIPMENT - GAC + NAR
B	THERMODYNAMICS - GAC	M	MECHANICAL DESIGN - GAC
C	ELECTRICAL POWER - GAC + NAR	N	RADARS - GAC
D	MESC (MASTER EVENTS SEQUENCE CONTROLLER) - NAR	P	PROPULSION - ASCENT ENGINE - GAC
E	ELSE (EARTH LANDING SEQUENCE CONTROLLER) - NAR	Q	SERVICE PROPULSION - NAR
F	ENVIRONMENTAL CONTROL - GAC + NAR	R	PROPULSION - DESCENT ENGINE - GAC
G	GUIDANCE AND NAVIGATION - GAC + NAR	S	REACTION CONTROL - GAC + NAR
H	STABILIZATION AND CONTROL - CES, GAC + NAR	T	EDS - NAR
I	STABILIZATION AND CONTROL - AGS, GAC	V	COMMUNICATIONS AND INSTRUMENTS - GAC + NAR
J	LIFE SYSTEMS - GAC + NAR	W	PROGRAMMER - GAC + NAR
K	FLIGHT TECHNOLOGY - NAR	Y	PYROTECHNICS - GAC

C. CHARACTERS THREE THROUGH SIX ARE NUMBERS ASSIGNED SEQUENTIALLY OR GROUPED FOR CLARITY WITHIN EACH SYSTEM

APOLLO MEASUREMENT NUMBER DESCRIPTION (CONTINUED)

D. THE SEVENTH CHARACTER, A LETTER, DENOTES MEASUREMENT CLASSIFICATION

MEASUREMENT	CLASSIFICATION	MEASUREMENT	CLASSIFICATION
A	ACCELERATION	N	RESISTANCE/CONTINUITY
B	PHASE	P	PRESSURE
C	CURRENT	Q	QUANTITY
D	VIBRATION	R	RATE
E	POWER	S	STRAIN
F	FREQUENCY	T	TEMPERATURE
G	FORCE/MECHANICAL IMPEDANCE	U	COMBINATION
H	POSITION/ATTITUDE	V	VOLTAGE
J	BIOMEDICAL	W	TIME
K	RADIATION	X	DISCRETE EVENT
L	VELOCITY	Y	ACOUSTICAL
M	MASS	Z	PH-ACIDITY

SAMPLE MEASUREMENT NUMBERS

LA0011A	THE 11TH STRUCTURAL ACCELERATION MEASUREMENT LOCATED ON THE LAUNCH ESCAPE TOWER
CA0360S	THE 360TH STRUCTURAL STRAIN MEASUREMENT LOCATED IN THE COMMAND MODULE
SC2060P	THE 2060TH ELECTRICAL PRESSURE MEASUREMENT LOCATED IN THE SERVICE MODULE

PCM FORMAT

DATE 22 DEC 72

LAUNCH VEHICLE TELEMETRY CHANNEL DESCRIPTION (CONTINUED)

FM/FM AND FM/FM/FM FORMAT

D	F2	-	17	M	08	
.	FM/FM/FM CHANNELS
.	02-08 MODULATE TELEMETRY CHANNEL 17
.	02-06 MODULATE TELEMETRY CHANNEL 14
.	FM/FM/FM DESIGNATOR
.	M = FM/FM/FM TELEMETRY
.	TELEMETRY CHANNEL (IRIG CHANNEL NOS. 01-18)
.	SWITCHING..TO ANOTHER CHANNEL
.	- = NO SWITCHING OCCURS
.	V = SWITCHING DOES OCCUR
.	TELEMETRY..LETTER AND NUMBER INDICATE TYPE OF TELEMETRY AND LINK
.	F1 = FM/FM LINK 1
.	F2 = FM/FM LINK 2
.	F3 = FM/FM LINK 3
.	VEHICLE STAGE (STAGE FROM WHICH MEASUREMENT IS BEING TELEMETERED)
.	C = S-IVB
.	D = I.U.
.	G = S-IB

* FM/FM USES A SIX CHARACTER TELEMETRY CHANNEL DESCRIPTION AND FM/FM/FM USES NINE.

APOLLO TELEMETRY CHANNEL DESCRIPTION

PCM FORMAT - GAC + NAR

1	0	05	052	A	3	R	
.	.	.	.	.	.	.	LINK ASSOCIATED WITH GSE AND FLIGHT RESPONSE EQUIPMENT
.	.	.	.	.	.	.	1 = APOLLO CARRY-ON MEASUREMENTS
.	.	.	.	.	.	.	2 = APOLLO AIRBORNE MEASUREMENTS
.	.	.	.	.	.	.	3 = APOLLO SERVICE EQUIPMENT MONITOR SYSTEM (GSE) MEASUREMENTS
.	.	.	.	.	.	.	4 = LEM CARRY-ON MEASUREMENTS
.	.	.	.	.	.	.	5 = LEM AIRBORNE MEASUREMENTS
.	.	.	.	.	.	.	6 = LEM SERVICE EQUIPMENT MONITOR SYSTEM (GSE) MEASUREMENTS
.	.	.	.	.	.	.	7 = UNDEFINED
.	.	.	.	.	.	.	8 = MSC THERMAL-VACUUM FACILITY MEASUREMENTS
.	.	.	.	.	.	.	9 = S/C R + D MEASUREMENTS
.	.	.	.	.	.	.	INTERLEAVER CHANNEL NUMBER
.	.	.	.	.	.	.	DASH OR BIT POSITION A-H
.	.	.	.	.	.	.	- = ANALOG MEASUREMENT
.	.	.	.	.	.	.	A = MSB POSITION
.	.	.	.	.	.	.	H = LSB POSITION
.	.	.	.	.	.	.	FIRST WORD POSITION (TIME SLOT) WITHIN THE FIRST PRIME FRAME
.	.	.	.	.	.	.	(WORD = CHANNEL NOS. 1-128)
.	.	.	.	.	.	.	FIRST PRIME FRAME WHERE MEASUREMENT APPEARS (FRAME 1-50)
.	.	.	.	.	.	.	NUMBER OF ZEROS THAT FOLLOW THE FIRST DIGIT IN SAMPLE RATE
.	.	.	.	.	.	.	FIRST DIGIT OF SAMPLE RATE

PAM/FM/FM FORMAT - NAR

XX	-	16	-	88	
.	.	.	.	.	SEGMENT NUMBER (WHEN APPLICABLE)
.	
.	.	.	.	.	DASH (FOR SEPARATION ONLY)
.	
.	.	.	.	.	IRIG CHANNEL NUMBER
.	
.	.	.	.	.	DASH (FOR SEPARATION ONLY)
.	
.	.	.	.	.	RF LINK (CM OR SM)

APOLLO TELEMETRY CHANNEL DESCRIPTION (CONTINUED)

PORTABLE LIFE SUPPORT SYSTEM (PLSS) FORMAT - GAC

1 - 11 - 20

 COMMUTATOR PIN NUMBER

 DASH (FOR SEPARATION ONLY)

 IRIG CHANNEL NUMBER

 DASH (FOR SEPARATION ONLY)

 PLSS UNIT NUMBER

SKYLAR 2 TELEMETRY LINKS

LINK	FREQUENCY (MHZ)	SOURCE
CP1	258.5	S-IVB
DF1 DP1	250.7 255.1	S-IU S-IU
GF1 GP1	240.2 256.2	S-IB S-IB
USB USB	2272.5 2287.5	CM CM

NOTE: UNIFIED S-BAND (USB) TRANSMITTERS ARE USED FOR VOICE COMMUNICATIONS, TRACKING AND RANGING, AND TRANSMISSION OF PCM DATA AND TELEVISION.

LIST OF ABBREVIATIONS

ABL	ABLATIVE	CURR	CURRENT
ACA	ATTITUDE CONTROLLER ASSEMBLY	DAC	DIGITAL TO ANALOG CONVERTER
ACT	ACTUATOR	DALO	DISCONNECT AT LIFTOFF
ADC	AMPERES, DIRECT CURRENT	DBM	DECIBEL REFERENCED TO ONE MILLIWATT
ADU	ADDRESS	DC	DEGREES CELSIUS
A.E.	ASCENT ENGINE	DCA	DIGITAL COMMAND ASSEMBLY
AEA	ABORT ELECTRONIC ASSEMBLY	DE-EN	DE-ENERGIZED
AGC	APOLLO GUIDANCE COMPUTER	DEG R	DEGREES-RANKIN
AGS	ABORT GUIDANCE SYSTEM	DEL P	DELTA PRESSURE
APS	AUXILIARY PROPULSION SYSTEM	DEPL	DEPLOY
ARS	ATMOSPHERE REVITALIZATION SECTION	DESTRUCT	DESTRUCT
ASA	ABORT SENSOR ASSEMBLY	DETECTION	DETECTION
ASI	AUGMENTED SPARK IGNITOR	DETERMINATION	DETERMINATION
ATT	ATTITUDE - ATTACH	DETER	DEGREES FAHRENHEIT
AVC	AUTOMATIC VOLUME CONTROL	DFI	DEVELOPMENT FLIGHT INSTRUMENTATION
B/F2-S	BTU PER SQUARE FOOT-SECOND	DIFF	DIFFERENTIAL
BIOM	BIOMEDICAL	DIS	DISTANCE
B1PROP	BIPROPELLANT	DISCH	DISCHARGE
BLKHD	BULKHEAD	DISP	DISPLAY
BNR	BURNER	DIST	DISTRIBUTOR
BRG	BEARING	DK	DEGREES KELVIN
BS	BITS PER SECOND	DR	DEGREES RANKINE
BTU/FS	BTU PER SQUARE FOOT	DRG	DROGUE
C+WE	CAUTION + WARNING EQUIPMENT	D/S	DEGREES PER SECOND
CAL	CALORIMETER	OSEA	DATA STORAGE ELECTRONIC ASSEMBLY
CAL MOD	CALIBRATE MODULATOR	EBW	EXPLODING BRIDGE WIRE
CB	CIRCUIT BREAKER	ECOU	ELECTRICAL COUPLING DISPLAY UNIT
CC	CONTACT CLOSURE	ECS	ENVIRONMENTAL CONTROL SYSTEM
CCS	COMMAND AND COMMUNICATIONS SYSTEM	EDS	EMERGENCY DETECTION SYSTEM
CDR	COMMAND RECEIVER	EED	ELECTRO EXPLOSIVE DEVICE
CDU	COUPLING DISPLAY UNIT	ELS	EARTH LANDING SYSTEM
CES	CONTROL ELECTRONICS SYSTEM	EMER	EMERGENCY
CL	CLOSE - CLOSED	EN	ENERGIZED - ENABLED
CM	COMMAND MODULE	EPS	ELECTRICAL POWER SUBSYSTEM
CMD	COMMAND MODULE COMPUTER	EXC	EXCHANGER
CMD	COMMAND	EXCH	EXCHANGE
CNTR	CONTAINER	EXT	EXTERNAL - EXTENSION
COMB	COMBUSTION	FC	FUEL CELL
COMPT	COMPARTMENT	FDAI	FLIGHT DIRECTION ATTITUDE INDICATOR
C/O	CUT OFF	FDVLV	FEEDVALVES
CONT	CONTROL - CONTINUOUS	F/S	FEET PER SECOND
CONTR	CONTAINER	F/U	FIRING UNIT
CORR	CORRELATION	FL	FUEL
CP	COLDPLATE	FLO	FEET PER SECOND
CRSE	COARSE	FPS	GRAVITATIONAL UNITS
CTR	CENTER - COUNTER	G	

LIST OF ABBREVIATIONS (CONTINUED)

GDA	GIMBAL DRIVE ACTIVATOR	MON	MONITOR
GG	GAS GENERATOR	MOT	MOTOR
GIM	GIMBAL	MPX	MULTIPLY
G-N	GUIDANCE AND NAVIGATION	MRCV	MIXTURE RATIO CONTROL VALVE
G/S	GRAVITY PER SECOND	MS	MILLISECOND
H E	HEAT EXCHANGE	M/S	MAINSTAGE
H/L	HIGH LEVEL	M/SEC/PULSE	METERS PER SECOND PER PULSE
HP	HIGH PRESSURE	M/SEC SQ	METERS PER SECOND PER SECOND
HS	HEAT SHIELD	MTG	MOUNTING
H5	HIGH SPEED	MTVC	MANUAL THRUST VECTOR CONTROL
H-SH	HEAT SHIELD	MV	MILLIVOLT
HYD	HYDRAULIC	MVRMS	MILLIVOLTS, RMS
IG	INNER GIMBAL	MW	MILLIWATT
IGA	INNER GIMBAL AXIS OR ANGLE	N+G	NAVIGATION + GUIDANCE
IGN	IGNITION	NPV	NON-PROPULSIVE VENT
IMU	INERTIAL MEASURING UNIT	NRZ	NON-RETURN TO ZERO
INC	INCIDENT	OCT	OCTIVE
IND	INDICATION - INDICATION	OG	OUTER GIMBAL
INSUL	INSULATION	OGA	OUTER GIMBAL AXIS OR ANGLE
INT	INTERNAL	ORF	ORIFICE
INV	INVERTER	OVRO	OVERRIDE
INV-CONV	INVERTER-CONVERTER	P	PITCH
ISOL	ISOLATION	PA	POWER AMPLIFIER
L	LEVEL	PAR	PARALLEL
LAT	LATERAL	PCA	PROGRAM COUPLER ASSEMBLY
LES	LAUNCH ESCAPE SYSTEM	PD	PROPELLANT DISPERSION
LEV	LEVEL	PGNS	PRIMARY GUIDANCE + NAVIGATION SUBSYSTEM
LF	LOW FREQUENCY	PH	HYDROGEN ION CONCENTRATION
LGC	LM GUIDANCE COMPUTER	PH	PHASE
LIOH	LITHIUM HYDROXIDE	PIPA	PULSED INTEGRATING PENDULUM ACCELEROMETER
L/L	LOW LEVEL	PLSS	PORTABLE LIFE SUPPORT SYSTEM
LM	LUNAR MODULE	PM	PROPELLANT MANAGEMENT
LMP	LM MISSION PROGRAMMER	PMP	PREMOTULATION PROCESSOR
LR	LANDING RADAR	PRA	PROGRAM READER ASSEMBLY
LSC	LINEAR-SHAPED CHARGE	PRF	PULSE REPETITION FREQUENCY
LVDA	LAUNCH VEHICLE DATA ADAPTER	PRG	PURGE
LVDC	LAUNCH VEHICLE DIGITAL COMPUTER	P/S	PULSE SENSOR
MAMP	MILLIAMPERES	PS	PULSE SENSOR
MANF	MANIFOLD	PSA	POWER + SERVO ASSEMBLY
MG	MIDDLE GIMBAL	PT	POINT
MGA	MIDDLE GIMBAL AXIS	PU	PROPELLANT UTILIZATION
MHZ	MEGHERTZ	PVR	PRECISION VOLTAGE REFERENCE
MIN/IN	MICROINCHES PER INCH	R CAL	RADIATION CALORIMETER
MWHs	MILLIMETERS OF MERCURY	RAD	RADIAL
MNFD	MANIFOLD	RAD/S2	RADIANS PER SECOND PER SECOND
MOD	MODULE	RCS	REACTION CONTROL SUBSYSTEM

LIST OF ABBREVIATIONS (CONTINUED)

ADK TRUN	RADAR TRUNION	SPS	SIGNAL PROCESSING SECTION
RECIRC	RECIRCULATION	SS	STEADY STATE
REG	REGULATOR	SY ANT	STEERABLE ANTENNA
REL	RELEASE	STR	STRENGTH
RES	RESIDUAL - RESISTANCE	SUP	SUPPLY
RET	RETURN	SW	SWITCH
RG	KATE GYRO	T CAL	TOTAL CALORIMETER
AGA	RATE GYRO ASSEMBLY	TCA	THRUST CHAMBER ASSEMBLY
RLF	RELIEF	TE	TIMING ELECTRONICS
RLY	RELAY	THR	THRUST
ROT	ROTATION	TK	TANK
RR	RENDEZVOUS RADAR	TELEMETRY	TELEMETRY
R/S	RANGE SAFETY	THRUST VECTOR CONTROL	THRUST VECTOR CONTROL
RSCR	RANGE SAFETY COMMAND RECEIVER	UDL	UP DATA LINK
RT	RATE	UI/I	MICROINCHES PER INCH
RTG	REACTIVE THERMONUCLEAR GENERATOR	ULL	ULLAGE
SB	S-BAND	UTIL	UTILIZATION
SCA	SIGNAL CONDITIONING ASSEMBLY	VA	VOLT-AMPERE
SCS	SEQUENCE CONTROL SYSTEM	VLV	VALVE
SCS	STABILIZATION CONTROL SYSTEM	VOL	VOLUME
SEC	SECURE - SECONDARY	VPI	VALVE POSITION INDICATION
SICO	SWITCHED IN FOR CHECKOUT	W	WARNING - WATTS
SIF	SWITCHED IN-FLIGHT	W/B	WATER BOILER
SM	SERVICE MODULE	W/CM2	WATTS PER CENTIMETER PER CENTIMETER
SOCU	SWITCHED OUT FOR CHECKOUT	WHL	WHEEL
S/O	SHUTOFF	X	X-AXIS (LM VERTICLE AXIS)
SOL	SOLENOID	Y	Y-AXIS (LM LATERAL AXIS)
SOV	SHUT OFF VALVE	Z	Z-AXIS (LM FOR-AFT AXIS)
SPS	SERVICE PROPULSION SYSTEM		

DATA EVALUATION GUIDE
SKYLAB 2 S-IVR

MEASUREMENT NUMBER	DISPLAY	P	TELEMETRY REQUEST	C	CHANNEL NUMBER	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
A0012-403*	17206	E			DF1-08	ACCEL. GIMBAL BLOCK, LONGT	D1D001*	06	0/5 6
C0001-401*	4711	E			DP1B0-17L01-00	TEMP-FUEL TURBINE INLET	D1C023*	01	460/226R DEGR
C0002-401*	4712	E			DP1B0-17L02-00	TEMP-OXIDIZER TURBINE INLET	D1C023*	02	460/1660 DEGR
XC0003-403*	4761	E			DP1B0-19L01-00	TEMP-FUEL PUMP INLET	D1C032*	06	35/47 DEGR
XC0004-403*	4762	E			DP1B0-19L02-00	TEMP-OXIDIZER PUMP INLET	D1C031*	06	160/170 DEGR
C0005-405*	4713	E			DP1B0-17L03-00	TEMP-COLD HE SPHERE NO 3 GAS	D1C020*	04	25/80 DEGR
VXC0006-401*	4714	E			DP1B0-17L04-00	TEMP-GH2 START BOTTLE	D1C024*	08	110/560 DEGR
VXC0007-401*	4715	E			DP1B0-17L05-00	TEMP-ENGINE CONTROL HELIUM	D1C026*	04	110/560 DEGR
C0008-403*	4716	E			DP1B0-17L06-00	TEMP-HEAT EXCHANGER HE INLET	D1C026*	07	25/260 DEGR
C0009-403*	4716	E			DP1B0-17L07-00	TEMP-HEAT EXCHANGER HE OUTLET	D1C026*	08	660/1360 DEGR
C0010-403*	4720	E			DP1B0-17L08-00	TEMP-ENGINE AREA AMBIENT	D1C013*	08	260/960 DEGR
C0011-401*	4721	E			DP1B0-17L09-00	TEMP-ELECTRICAL CONTROL ASSY	D1C019*	08	160/660 DEGR
C0012-401*	4722	E			DP1B0-17L10-00	TEMP-GG FUEL BLEED VALVE	D1C029*	08	35/85 DEGR
C0015-410*	4422	E			DP1B0-02-02-00	TEMP-FUEL TANK GH2 INLET	D1C029*	06	50/300 DEGR
C0016-424*	4763	E			DP1B0-19L03-00	TEMP-OXIDIZER TANK HELIUM INLET	D1C030*	01	175/560 DEGR
C0017-411*	4423	E			DP1B0-02-03-00	TEMP-PU SYSTEM INTERNAL	D1C016*	06	410/660 DEGR
C0040-406*	4764	E			DP1B0-19L04-00	TEMP-OXIDIZER TANK POSITION 1	D1C027*	06	400/785 DEGR
VXC0050-401*	3752	E			CP1B0-11-03-00	TEMP-HYDRAULIC PUMP INLET OIL	D1C009*	04	400/785 DEGR
	4615	E			DP1B0-11-03-00		D1C008*	07	
VXC0051-403*	4765	E			DP1B0-19L05-00	TEMP-RESERVOIR OIL	D1C009*	05	400/785 DEGR
C0052-408*	4424	E			DP1B0-02-04-00	TEMP-FUEL TANK POSITION 1	D1C027*	07	35/47 DEGR
C0102-411*	4425	E			DP1B0-02-05-00	TEMP-FORWARD BATTERY NO 1	D1C012*	05	460/660 DEGR

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MEASUREMENT NUMBER	DISPLAY NUMBER	P REQUEST	TELEMETRY C CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/RMARKS
C0103-411*	4426	E	DP1B0-02-06-00	TEMP-FORWARD BATTERY NO 2	DIC013*	05	460/660 DEGR
C0104-404*	4624	E	DP1B0-11-10-00	TEMP-AFT BATTERY NO 1	DIC010*	07	460/660 DEGR
C0105-404*	4663	E	DP1B0-14-10-00	TEMP-AFT BATTERY NO 2	DIC011*	04	460/660 DEGR
C0133-401*	4735	E	DP1B0-18L01-00	TEMP-OXIDIZER PUMP DISCHARGE	DIC025*	08	160/210 DEGR
C0134-401*	4736	E	DP1B0-18L02-00	TEMP-FUEL PUMP DISCHARGE	DIC025*	04	35/60 DEGR
V0138-403*	4766	E	DP1B0-19L06-00	TEMP-ACCUMULATOR GN2	DIC009*	06	400/785 DEGR
C0157-404*	4767	E	DP1B0-19L07-00	TEMP-FUEL CIRC PUMP OUTLET	DIC032*	05	35/50 DEGR
C0159-424*	3750	E	CP1B0-11-01-00	TEMP-LOX CIRC RET LINE TK INLET	DIC031*	03	160/320 DEGR
C0161-424*	4613	E	DP1B0-11-01-00	TEMP-LH2 CIRC RET LINE TK INLET	DIC031*	04	
C0163-424*	3751	E	CP1B0-11-02-00	TEMP-OXIDIZER CIRC PUMP OUTLET	DIC032*	03	35/50 DEGR
C0166-414*	4614	E	DP1B0-11-02-00	TEMP-HE SPHERE GAS-MOD 1 (APS)	DIC032*	04	
C0167-415*	4770	E	DP1B0-19L08-00	TEMP-HE SPHERE GAS-MOD 2 (APS)	DIC031*	05	163/200 DEGR
XC0168-414*	5005	E	DP1B0-20L01-00	TEMP-HE SPHERE GAS-MOD 2 (APS)	DIC005*	01	360/660 DEGR
XC0169-415*	5006	E	DP1B0-20L02-00	TEMP-OXID TK OUTLET MOD 1 (APS)	DIC005*	05	360/660 DEGR
XC0170-414*	3753	E	CP1B0-11-04-00	TEMP-OXID TK OUTLET MOD 2 (APS)	DIC001*	07	460/590 DEGR
XC0171-415*	4616	E	DP1B0-11-04-00	TEMP-OXID TK OUTLET MOD 2 (APS)	DIC001*	08	
C0197-401*	3754	E	CP1B0-11-05-00	TEMP-FUEL TK OUTLET MOD 1 (APS)	DIC003*	07	460/590 DEGR
C0198-401*	4617	E	DP1B0-11-05-00	TEMP-FUEL TK OUTLET MOD 2 (APS)	DIC003*	08	
VX0199-401*	3755	E	CP1B0-11-06-00	TEMP-PRIMARY INST PACKAGE	DIC002*	07	460/590 DEGR
	4620	E	DP1B0-11-06-00	TEMP-AUXILIARY INST PACKAGE	DIC002*	08	
	3756	E	CP1B0-11-07-00	TEMP-THRUST CHAMBER JACKET	DIC004*	07	460/590 DEGR
	4621	E	DP1B0-11-07-00		DIC004*	08	
	4737	E	DP1B0-18L03-00		DIC019*	06	160/660 DEGR
	4740	E	DP1B0-18L04-00		DIC019*	07	160/660 DEGR
	4741	E	DP1B0-18L05-00		DIC023*	07	35/560 DEGR

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MEASUREMENT NUMBER	DISPLAY NUMBER	P REQUEST	TELEMETRY C CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
XC0200-401	4742	E	DP180-18L06-00	TEMP-FUEL INJECTION	D1C023	08	35/560 DEGR
VXC0207-425	4427	E	DP180-02-07-00	TEMP-COLD HE SPHERE NO 5 GAS	D1C020	05	25/80 DEGR
CU0208-405	4743	E	DP180-18L07-00	TEMP-COLD HE SPHERE NO 1 GAS	D1C020	03	25/80 DEGR
C0210-405	4744	E	DP180-18L08-00	TEMP-COLD HE SPHERE NO 4 GAS	D1C020	02	25/560 DEGR
C0211-411	4506	E	DP180-05-03-00	TEMP-FWD BATTERY NO 1, UNIT 2	D1C012	06	460/660 DEGR
C0215-401	4745	E	DP180-18L09-00	TEMP-OXIDIZER TURBINE OUTLET	D1C023	03	460/1460 DEGR
C0254-409	4430	E	DP180-02-08-00	TEMP-LH2 TANK NON-PROP VENT -1	D1C029	02	25/260 DEGR
C0255-409	4431	E	DP180-02-09-00	TEMP-LH2 TANK NON-PROP VENT -2	D1C029	04	25/260 DEGR
C2030-404	4771	E	DP180-19L09-00	TEMP-LOX NPV NOZZLE NO 1	D1C030	06	100/300 DEGR
C2031-404	4772	E	DP180-19L10-00	TEMP-LOX NPV NOZZLE NO 2	D1C030	08	100/300 DEGR
D0001-401	4612	E	DP180-10-00-00	PRESS-THRUST CHAMBER	D1C025	01	0/1000 PSIA
XD0002-403	3776	E	CP180-13-01-00	PRESS-FUEL PUMP INLET	D1C032	07	0/60 PSIA
	4640	E	DP180-13-01-00		D1C032	08	
XD0003-403	3777	E	CP180-13-02-00	PRESS-OXIDIZER PUMP INLET	D1C031	07	0/60 PSIA
	4641	E	DP180-13-02-00		D1C031	08	
D0004-401	4530	E	DP180-06-01-00	PRESS-MAIN FUEL INJECTION	D1C025	03	0/1000 PSIA
D0005-401	4531	E	DP180-06-02-00	PRESS-MAIN OXIDIZER INJECTOR	D1C025	06	0/1000 PSIA
D0007-401	4532	E	DP180-06-03-00	PRESS-OXIDIZER TURBINE INLET	D1C023	05	0/200 PSIA
D0008-401	4533	E	DP180-06-04-00	PRESS-FUEL PUMP DISCHARGE	D1C025	02	0/1500 PSIA
D0009-401	4534	E	DP180-06-05-00	PRESS-OXIDIZER PUMP DISCHARGE	D1C025	05	0/1500 PSIA
D0010-401	4676	E	DP180-16-00-00	PRESS-GAS GENERATOR CHAMBER	D1C023	04	0/1000 PSIA

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MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VXD0014-403	4535	E	DP1B0-06-06-00	PRESS-CONTROL HE REG DISCHARGE	DIC021	04	0/650 PSIA
VXD0016-425	3625	E	DP1B0-01-01-00	PRESS-COLD HELIUM SPHERE	DIC020	07	0/3500 PSIA
	4375	E	CP1B0-01-01-00		DIC020	06	0/3500 PSIA
VXD0017-401	4000	E	CP1B0-13-03-00	PRESS-GH2 START BOTTLE	DIC024	05	0/1500 PSIA
	4642	E	DP1B0-13-03-00		DIC024	06	
D0018-401	3774	E	CP1B0-12-00-00	PRESS-ENGINE REGULATOR OUTLET	DIC026	05	0/750 PSIA
	4637	E	DP1B0-12-00-00		DIC026	06	
VXD0019-401	4001	E	CP1B0-13-04-00	PRESS-ENGINE CONTROL HE SPHERE	DIC026	01	0/3500 PSIA
	4643	E	DP1B0-13-04-00		DIC026	02	
VXD0041-403	4002	E	CP1B0-13-05-00	PRESS-HYDRAULIC SYSTEM	DIC009	01	1500/4500 PSIA
	4644	E	DP1B0-13-05-00		DIC008	01	
VXD0042-403	4536	E	DP1B0-06-07-00	PRESS-RESERVOIR OIL	DIC008	02	0/400 PSIA
VD0043-403	4003	E	CP1B0-13-06-00	PRESS-GN2 ACCUMULATOR	DIC009	02	1500/4000 PSIA
	4645	E	DP1B0-13-06-00		DIC008	03	
VD0050-403	4537	E	DP1B0-06-08-00	PRESS-ENG PUMP PURGE REGULATOR	DIC021	06	0/1500 PSIA
VD0054-410	4404	E	DP1B0-01-08-00	PRESS-FUEL TANK INLET	DIC029	05	0/100 PSIA
VD0055-424	4540	E	DP1B0-06-09-00	PRESS-OXIDIZER TANK INLET	DIC030	02	0/300 PSIA
U0057-401	4554	E	DP1B0-07-01-00	PRESS-PU VALVE OUTLET	DIC025	07	0/500 PSIA
D0063-414	4555	E	DP1B0-07-02-00	PRESS-FUEL SUP MANF MOD 1 (APS)	DIC002	06	0/400 PSIA
VXD0064-414	4004	E	CP1B0-13-07-00	PRESS-HE REG INLET MOD 1 (APS)	DIC005	02	0/3500 PSIA
	4646	E	DP1B0-13-07-00		DIC005	03	
D0065-414	4005	E	CP1B0-13-08-00	PRESS-HE REG OUTLET MOD 1 (APS)	DIC001	03	0/400 PSIA
	4647	E	DP1B0-13-08-00		DIC002	03	
D0066-415	4556	E	DP1B0-07-03-00	PRESS-OXID SUP MANF MOD 2 (APS)	DIC003	06	0/400 PSIA
D0067-415	4557	E	DP1B0-07-04-00	PRESS-FUEL SUP MANF MOD 2 (APS)	DIC004	06	0/400 PSIA
D0068-415	4006	E	CP1B0-13-09-00	PRESS-HE REG INLET MOD 2 (APS)	DIC005	06	0/3500 PSIA
	4650	E	DP1B0-13-09-00		DIC005	07	

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MEASUREMENT NUMBER	DISPLAY NUMBER	P REQUEST	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
D0069-415	4007	E	CP180-13-10-00	PRESS-HE REG OUTLET MOD 2 (APS)	D1C003	03	0/400 PSIA
	4651	E	DP180-13-10-00		D1C004	03	
VD0078-414	4041	E	CP180-17-00-00	PRESS-ATT CONTROL CHAMBER 1-1	D1C006	03	0/200 PSIA
VD0079-414	4043	E	CP180-18-00-00	PRESS-ATT CONTROL CHAMBER 1-2	D1C007	03	0/200 PSIA
VD0080-414	4045	E	CP180-19-00-00	PRESS-ATT CONTROL CHAMBER 1-3	D1C006	04	0/200 PSIA
VD0081-415	4047	E	CP180-20-00-00	PRESS-ATT CONTROL CHAMBER 2-1	D1C006	07	0/200 PSIA
VD0082-415	4051	E	CP180-21-00-00	PRESS-ATT CONTROL CHAMBER 2-2	D1C007	06	0/200 PSIA
VD0083-415	4053	E	CP180-22-00-00	PRESS-ATT CONTROL CHAMBER 2-3	D1C006	08	0/200 PSIA
D0084-414	4560	E	DP180-07-05-00	PRESS-OXID SUP MANF MOD 1 (APS)	D1C001	06	0/400 PSIA
D0086-401	4561	E	DP180-07-06-00	PRESS-OXIDIZER TURBINE OUTLET	D1C023	06	0/100 PSIA
VXD0089-414	4562	E	DP180-07-07-00	PRESS-FUEL TK ULLAGE MOD 1 APS	D1C002	04	0/400 PSIA
VXD0090-414	4563	E	DP180-07-08-00	PRESS-OXID TK ULLAGE MOD 1 APS	D1C001	04	0/400 PSIA
VXD0091-415	4564	E	DP180-07-09-00	PRESS-FUEL TK ULLAGE MOD 2 APS	D1C004	04	0/400 PSIA
VXD0092-415	4565	E	DP180-07-10-00	PRESS-OXID TK ULLAGE MOD 2 APS	D1C003	04	0/400 PSIA
VXD0093-414	4566	E	DP180-08-01-00	PRESS-FUEL TK OUTLET MOD 1 APS	D1C002	05	0/400 PSIA
VXD0094-414	4567	E	DP180-08-02-00	PRESS-OXID TANK MODULE 1 APS	D1C001	05	0/400 PSIA
VXD0095-415	4570	E	DP180-08-03-00	PRESS-OXID TK OUTLET MOD 2 APS	D1C003	05	0/400 PSIA
VXD0096-415	4571	E	DP180-08-04-00	PRESS-FUEL TK OUTLET MOD 2 APS	D1C004	05	0/400 PSIA
VD0103-403	4572	E	DP180-08-05-00	PRESS-HE PRESS TO LOX MOT CNTR	D1C021	07	0/150 PSIA
D0104-403	3635	E	CP180-01-09-00	PRESS-LH2 PRESS MODULE INLET	D1C029	07	0/1000 PSIA
D0105-403	4573	E	DP180-08-06-00	PRESS-LOX TANK PRESS MOD HE GAS	D1C030	03	0/500 PSIA
VXD0160-403	4011	E	CP180-14-01-00	PRESS-HELIUM (AMBIENT) SPHERE	D1C021	01	0/3500 PSIA
	4652	E	DP180-14-01-00		D1C021	02	

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MEASUREMENT NUMBER	DISPLAY NUMBER	P REQUEST	TELEMETRY C CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VDU177-408	3626	E	CP1B0-01-02-00	PRESS-FUEL TANK ULLAGE EDS 1	D1C028	01	0/50 PSIA
	4376	E	DP1B0-01-02-00		D1C028	02	
VDU178-408	3627	E	CP1B0-01-03-00	PRESS-FUEL TANK ULLAGE EDS 2	D1C028	03	0/50 PSIA
	4377	E	DP1B0-01-03-00		D1C028	04	
VXU0179-406	4012	E	CP1B0-14-02-00	PRESS-OXID TANK ULLAGE EDS 1	D1C028	05	0/50 PSIA
	4653	E	DP1B0-14-02-00		D1C028	06	
VD0180-406	4013	E	CP1B0-14-03-00	PRESS-OXID TANK ULLAGE EDS 2	D1C028	07	0/50 PSIA
	4654	E	DP1B0-14-03-00		D1C028	08	
D0183-409	4405	E	DP1B0-01-09-00	PRESS-LH2 TANK NON-PROP VENT -1	D1C029	01	0/50 PSIA
D0184-409	4406	E	DP1B0-01-10-00	PRESS-LH2 TANK NON-PROP VENT -2	D1C029	03	0/50 PSIA
D0208-407	3634	E	CP1B0-01-08-00	PRESS-COMMON BULKHEAD INTERNAL	D1C020	01	0/250 PSIA
D0218-403	4574	E	DP1B0V08-07-00	PRESS-DIFF LH2 CHILLOWN PUMP	D1C032	01	+30 PSID
D0219-403	4575	E	DP1B0V08-08-00	PRESS-DIFF LOX CHILLOWN PUMP	D1C031	01	+30 PSID
D0225-403	3636	E	CP1B0-01-10-00	PRESS-COLD HELIUM CONT VLV INL	D1C030	04	0/500 PSID
D0241-401	4477	E	DP1B0-04-07-00	PRESS-GH2 START BTL BKUP MEAS	D1C024	07	0/3500 PSIA
D0242-401	4500	E	DP1B0-04-08-00	PRESS-ENG CONT HE SPH BKUP MEAS	D1C026	03	0/5000 PSIA
D0243-404	4655	E	DP1B0-14-04-00	PRESS-LOX NPV NOZZLE NO 1	D1C030	05	0/50 PSIA
D0244-404	4656	E	DP1B0-14-05-00	PRESS-LOX NPV NOZZLE NO 2	D1C030	07	0/50 PSIA
D0247-403	3670	E	CP1B0-03-05-00	PRESS-CONT HE REG DISCHARGE	D1C021	05	0/650 PSIA
D0248-425	4432	E	DP1B0-02-10-00	PRESS-COLD HE SPHERES	D1C020	08	0/3500 PSIA
D0252-414	4453	E	DP1B0-03-07-00	PRESS-HE REG I/L MOD 1 APS	D1C005	04	0/3500 PSIA
D0253-415	4454	E	DP1B0-03-08-00	PRESS-HE REG I/L MOD 2 APS	D1C005	08	0/3500 PSIA
D0255-403	4455	E	DP1B0-03-09-00	PRESS-HE AMBIENT SPHERE	D1C021	03	0/3500 PSIA
D0265-403	17204	E	DF1-06	PRESSURE, LOX FEED DUCT	D1D001	04	0/60 PSIA

MEASUREMENT NUMBER	DISPLAY	P	TELEMETRY REQUEST	C	CHANNEL NUMBER	MEASUREMENT DESCRIPTION	J2 ENGINE THRUST CHAMBER OSC	RECORD NUMBER	TR NO	RANGE/REMARKS
D0266-401	17205	E			DF1-07			D1D001	05	+5 PSIA
F0001-401	5031	E			DP180-21-01-00	FLOWMETER-OXIDIZER		D1C024	03	0/3000 GPM
F0002-401	5032	E			DP180-21-02-00	FLOWMETER-FUEL		D1C024	04	0/9000 GPM
VXF0004-424	5033	E			DP180-21-03-00	FLOW RATE-OXID CIRCULATION PUMP		D1C031	02	0/50 GPM
VXF0005-404	5034	E			DP180-21-04-00	FLOW RATE-FUEL CIRCULATION PUMP		D1C032	02	0/160 GPM
X60001-403	4055	E			CP180-23-01-00	POSIT-ACTUATOR PISTON POT PITCH		D1C009	07	+7.5 DEG
X60002-403	4056	E			CP180-23-02-00	POSIT-ACTUATOR PISTON POT YAW		D1C008	05	
60003-401	4057	E			CP180-23-03-00	POSIT-MAIN OXIDIZER VALVE		D1C022	05	0/100 PCT
60004-401	4060	E			CP180-23-04-00	POSIT-MAIN FUEL VALVE		D1C022	06	
60005-401	4576	E			DP180-08-09-00	POSIT-GAS GENERATOR VALVE		D1C022	07	0/100 PCT
60008-401	4061	E			CP180-23-05-00	POSIT-OXID TURBINE BYPASS VALVE		D1C022	08	
60009-401	4577	E			DP180-08-10-00	POSIT-GH2 START VALVE		D1C022	04	0/100 PCT
60017-401	4062	E			CP180-23-06-00	POSIT-MIX RATIO CONT VALVE		D1C022	02	0/100 PCT
	5063	E			DP180-23-06-00			D1C022	03	
								D1C022	01	0/100 PCT
								D1C016	07	0/65 DEG
								D1C016	08	

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MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
K0001-410	3733	B	CP1B0-09R01-01	EVENT-FUEL TANK VENT VALVE-CL	D1C027	01	0/28 VOLT
	4600	E	DP1B0-09U01-01				
K0002-424	3734	B	CP1B0-09R02-01	EVENT-OXID TANK VENT VALVE-CL	D1C027	02	0/28 VOLT
	4601	E	DP1B0-09U02-01				
K0003-427	3733	B	CP1B0-09R01-04	EVENT-FUEL FILL VALVE-CLOSED			0/28 VOLT
K0004-404	3733	B	CP1B0-09R01-05	EVENT-OXID FILL VALVE-CLOSED			0/28 VOLT
VK0005-401	3651	B	CP1B0-02G00-02	EVENT-MAINSTAGE CONTROL SOL-EN			0/28 VOLT
VK0006-401	3651	B	CP1B0-02G00-03	EVENT-IGN PHASE CONTROL SOL-EN			0/28 VOLT
K0007-401	3651	B	CP1B0-02G00-04	EVENT-HELIUM CONTROL SOL-EN			0/28 VOLT
VK0008-401	3651	B	CP1B0-02G00-05	EVENT-IGNITION DETECTED			0/28 VOLT
VK0010-401	3651	B	CP1B0-02G00-06	EVENT-THRUST CHAMB SPARK SYS-ON			0/28 VOLT
VK0011-401	3651	B	CP1B0-02G00-07	EVENT-G G SPARK SYSTEM-ON			0/28 VOLT
K0012-401	3735	B	CP1B0-09R03-02	EVENT-ENGINE READY SIGNAL	D1C027	03	0/28 VOLT
	4602	E	DP1B0-09U03-02				
XK0013-401	3735	B	CP1B0-09R03-01	EVENT-CUTOFF SIGNAL	D1C027	03	0/28 VOLT
	4602	E	DP1B0-09U03-01				
VK0014-401	3735	B	CP1B0-09R03-03	EVENT-MAINSTAGE OK PRESS SW 1	D1C027	03	0/28 VOLT
	4602	E	DP1B0-09U03-03				
K0016-404	3733	B	CP1B0-09R01-07	EVENT-OXID TANK VENT VALVE 1-OP			0/28 VOLT
K0017-410	3733	B	CP1B0-09R01-08	EVENT-FUEL TANK VENT VALVE 1-OP			0/28 VOLT
K0018-404	3733	B	CP1B0-09R01-09	EVENT-OXIDIZER FILL VALVE-OPEN			0/28 VOLT
K0019-403	3740	B	CP1B0-09R06-09	EVENT-FUEL FILL VALVE-OPEN			0/28 VOLT
K0020-401	3733	B	CP1B0V09R01-10	EVENT-ASI LOX VALVE-OPEN			0/28 VOLT
VK0021-404	3651	B	CP1B0-02G00-01	EVENT-ENGINE START-ON	D1C027	04	0/28 VOLT
	4421	E	DP1B0-02U01-01				

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MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VK0095-401*	3651	B	CP1B0-02G00-08	EVENT-THR CHAMB LH2 INJ TEMP OK			0/28 VOLTS
VK0096-401*	3651	B	CP1B0-02G00-09	EVENT-START TANK DISCHARGE CONT			0/28 VOLTS
K0098-411*	3710	E	CP1B0-04-00-00	EVENT-R/S 1 ARM CUTOFF DEST IND	D1C014*	03	0/5 VOLTS
K0099-411*	3725	E	CP1B0-06-00-00	EVENT-R/S 2 ARM CUTOFF DEST IND	D1C014*	04	0/5 VOLTS
VK0102-404*	3734	B	CP1B0-09R02-04	EVENT-LOX PREPRESS FLIGHT SW-EN			0/28 VOLTS
VK0105-404*	3734	B	CP1B0-09R02-05	EVENT-PUMP PURGE REG BKUP DE-EN			0/28 VOLTS
K0109-403*	3734	B	CP1B0-09R02-06	EVENT-OXIDIZER PRE-VALVE-OPEN			0/28 VOLTS
K0110-403*	3734	B	CP1B0-09R02-02	EVENT-OXIDIZER PRE-VALVE-CLOSED	D1C027*	02	0/28 VOLTS
K0111-404*	4601	E	CP1B0-09U02-02	EVENT-FUEL PRE-VALVE-OPEN			0/28 VOLTS
K0112-404*	3734	B	CP1B0-09R02-07	EVENT-FUEL PRE-VALVE-CLOSED	D1C027*	02	0/28 VOLTS
K0113-411*	3734	B	CP1B0-09R02-09	EVENT-LH2 TANK VENT VALVE C-CL			0/28 VOLTS
K0114-411*	3734	B	CP1B0-09R02-08	EVENT-LH2 TANK VENT VALVE D-CL			0/28 VOLTS
K0116-401*	3734	B	CP1B0V09R02-10	EVENT-GAS GENERATOR VALVE-CL			0/28 VOLTS
VK0117-401*	3735	B	CP1B0-09R03-04	EVENT-GAS GENERATOR VALVE-OPEN			0/28 VOLTS
VK0118-401*	3735	B	CP1B0-09R03-05	EVENT-MAIN FUEL VALVE-OPEN			0/28 VOLTS
K0119-401*	3735	B	CP1B0V09R03-06	EVENT-MAIN FUEL VALVE-CLOSED			0/28 VOLTS
VK0120-401*	3735	B	CP1B0-09R03-07	EVENT-MAIN OXIDIZER VALVE-OPEN			0/28 VOLTS
K0121-401*	3735	B	CP1B0V09R03-08	EVENT-MAIN OXIDIZER VALVE-CL			0/28 VOLTS
VK0122-401*	3735	B	CP1B0-09R03-09	EVENT-START TANK DISCH VALVE-OP			0/28 VOLTS
K0123-401*	3735	B	CP1B0V09R03-10	EVENT-START TANK DISCH VALVE-CL			0/28 VOLTS
VK0124-401*	3736	B	CP1B0-09R04-04	EVENT-OXID TURR BYPASS VALVE-OP			0/28 VOLTS

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SKYLAB 2 S-1V

MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VK0125-401	3736	B	CP1B0-09R04-05	EVENT-OXID TURB BYPASS VALVE-CL			0/28 VOLTS
K0126-401	3736	B	CP1B0V09R04-01	EVENT-OXIDIZER BLEED VALVE-CL			0/28 VOLTS
	4603	E	DP1B0V09U04-01		DIC027	05	
K0127-401	3736	B	CP1B0V09R04-02	EVENT-FUEL BLEED VALVE-CLOSED			0/28 VOLTS
	4603	E	DP1B0V09U04-02		DIC027	05	
K0128-404	5055	E	DP1B0-22-00-00	EVENT-SWITCH SEL OUTPUT MONITOR			0/5 VOLTS
VK0132-404	4070	E	CP1B0-24-00-00	EVENT-APS ENG 1-1/1-3 FDLV-OP			0/5 VOLTS
	5070	E	DP1B0-24-00-00		DIC006	01	
VK0133-404	4072	E	CP1B0-25-00-00	EVENT-APS ENGINE 1-2 FDLV-OPEN			0/5 VOLTS
	5071	E	DP1B0-25-00-00		DIC007	02	
VK0134-404	4074	E	CP1B0-26-00-00	EVENT-APS ENG 2-1/2-3 FDLV-OP			0/5 VOLTS
	5072	E	DP1B0-26-00-00		DIC006	05	
VK0135-404	4076	E	CP1B0-27-00-00	EVENT-APS ENGINE 2-2 FDLV-OPEN			0/5 VOLTS
	5074	E	DP1B0-27-00-00		DIC007	04	
K0140-404	3743	B	CP1B0-09R09-06	EVENT-ENGINE CUTOFF COMMAND-ON			0/28 VOLTS
VK0141-411	3736	B	CP1B0-09R04-07	EVENT-R/S 1 PULSE SENSOR			0/28 VOLTS
VK0142-411	3736	B	CP1B0-09R04-08	EVENT-R/S 2 PULSE SENSOR			0/28 VOLT
VK0143-404	3736	B	CP1B0-09R04-09	EVENT-ULL RKT 1 IGN P/S 1			0/28 VOLT
VK0144-404	3736	B	CP1B0-09R04-10	EVENT-ULL RKT 1 IGN P/S 2			0/28 VOLT
VK0145-404	3737	B	CP1B0-09R05-04	EVENT-ULL RKT 2 IGN P/S 1			0/28 VOLT
VK0146-404	3737	B	CP1B0-09R05-05	EVENT-ULL RKT 2 IGN P/S 2			0/28 VOLT
VK0147-404	3737	B	CP1B0-09R05-06	EVENT-ULL RKT 3 IGN P/S 1			0/28 VOLT
VK0148-404	3737	B	CP1B0-09R05-07	EVENT-ULL RKT 3 IGN P/S 2			0/28 VOLT
VK0149-404	3737	B	CP1B0-09R05-08	EVENT-ULLAGE JETTISON 1 P/S			0/28 VOLT
VK0150-404	3737	B	CP1B0-09R05-09	EVENT-ULLAGE JETTISON 2 P/S			0/28 VOLT

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MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VK0152-404	3743	B	CP180-09R09-08	EVENT-RT GYRO WHL SPEED OK IND			0/28 VOLT
VK0156-404	3737	B	CP180-09R05-10	EVENT-LOX TK REG BKUP PRESS-EN			0/28 VOLT
VK0157-401	3736	B	CP180-09R04-03	EVENT-MAINSTAGE OK PRESS SW 2			0/28 VOLT
	4603	E	DP180-09U04-03		D1C027	05	
VK0158-401	3740	B	CP180-09R06-05	EVENT-M/S OK PRESS SW 1 DEPRESS			0/28 VOLT
VK0159-401	3740	B	CP180-09R06-06	EVENT-M/S OK PRESS SW 2 DEPRESS			0/28 VOLT
VK0168-404	3740	B	CP180-09R06-07	EVENT-SWITCH SEL REGISTER TEST			0/28 VOLT
VK0169-404	3740	B	CP180-09R06-08	EVENT-EBW PULSE SENSOR OFF IND			0/28 VOLT
K0198-424	3742	B	CP180-09R08-06	EVENT-LOX NPV VLV OPENED T/B			0/28 VOLT
K0199-424	3743	B	CP180-09R09-10	EVENT-LOX NPV VLV CLOSED T/B			0/28 VOLT
K0210-410	3744	B	CP180-09R10-09	EVENT-LH2 LATCH RLF VLV CLSD			0/28 VOLT
K0211-410	3744	B	CP180-09R10-10	EVENT-LH2 LATCH RLF VLV OPEN			0/28 VOLT
K0213-404	3733	B	CP180-09R01-03	EVENT-PASSIVATION ENABLE IND	D1C027	01	0/28 VOLT
	4600	E	DP180-09U01-03				0/28 VOLT
K0215-404	3733	B	CP180-09R01-02	EVENT-APS HE RECH VLV OP CMD	D1C027	01	0/28 VOLT
	4600	B	DP180-09U01-02				
K0216-404	3736	B	CP180-09R04-06	EVENT-ENGINE START ON+BACKUP			0/28 VOLT
K0219-404	3742	B	CP180-09R08-07	EVENT-MIX RATIO CONT VLV OP ON			ON/OFF
L0001-408	3741	B	CP180-09R07-04	LEVEL-LIQUID HYDROGEN TK POS 1			0/28 VOLT
L0002-408	3741	B	CP180-09R07-05	LEVEL-LIQUID HYDROGEN TK POS 2			0/28 VOLT
L0004-406	3741	B	CP180-09R07-06	LEVEL-LIQUID OXYGEN TANK POS 1			0/28 VOLT
L0005-406	3741	B	CP180-09R07-07	LEVEL-LIQUID OXYGEN TANK POS 2			0/28 VOLT
VXL0007-403	3757	P	CP180-11-08-00	LEVEL-RESERVOIR OIL	D1C009	03	0/100 PCT
	4622	P	DP180-11-08-00		D1C008	04	

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MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VXM0001-411	4471	E	DP1B0-04-01-00	VOLT-STATIC INVERTER-CONVERTER	D1C016	01	90/135 VOLT
VM0004-411	4472	E	DP1B0-04-02-00	VOLT-STATIC INV-CONV.5VOLTS DC	D1C016	02	4.5/5.5 VOLT
MU006-401	4664	E	DP1B0-15-01-00	VOLT-ENGINE CONTROL BUS	D1C010	03	0/30 VOLT
MU007-401	4665	E	DP1B0-15-02-00	VOLT-ENGINE IGNITION BUS	D1C010	04	0/30 VOLT
VXM0012-411	4473	E	DP1B0-04-03-00	FREQ-STATIC INVERTER-CONVERTER	D1C016	03	390/410 CPS
M0014-404	4016	E	CP1B0-14-06-00	VOLT-OUTPUT AFT BATTERY NO 1	D1C010	01	0/40 VOLT
	4657	E	DP1B0-14-06-00		D1C010	02	
M0015-404	4017	E	CP1B0-14-07-00	VOLT-OUTPUT AFT BATTERY NO 2	D1C011	01	0/80 VOLT
	4660	E	DP1B0-14-07-00		D1C011	02	
M0016-411	3630	E	CP1B0-01-04-00	VOLT-OUTPUT FWD BATTERY NO 1	D1C012	01	0/40 VOLT
	4400	E	DP1B0-01-04-00		D1C012	02	
M0018-411	3631	E	CP1B0-01-05-00	VOLT-OUTPUT FWD BATTERY NO 2	D1C013	01	0/40 VOLT
	4401	E	DP1B0-01-05-00		D1C013	02	
XM0019-411	3632	E	CP1B0-01-06-00	CURRENT-LOAD FWD BATTERY NO 1	D1C012	03	0/200 AMP
	4402	E	DP1B0-01-06-00		D1C012	04	
XM0020-411	3633	E	CP1B0-01-07-00	CURRENT-LOAD FWD BATTERY NO 2	D1C013	03	0/20 AMP
	4403	E	DP1B0-01-07-00		D1C013	04	
XM0021-404	4020	E	CP1B0-14-08-00	CURRENT-LOAD AFT BATTERY NO 1	C1C010	05	0/200 AMP
	4661	E	DP1B0-14-08-00		D1C010	06	
XM0022-404	4021	E	CP1B0-14-09-00	CURRENT-LOAD AFT BATTERY NO 2	D1C011	03	0/200 AMP
	4662	E	DP1B0-14-09-00		D1C008	08	
VM0023-411	4474	E	DP1B0-04-04-00	VOLT-STATIC INV-CONV.21VOLTS DC	D1C016	04	20/23.5 VOLT
M0024-411	3722	E	CP1B0-05-09-00	VOLT-5 VOLT EXCITATION MOD FWD	D1C012	07	4.5/5.5 VOLT
	4614	E	DP1B0-05-09-00		D1C012	08	
M0025-404	3723	E	CP1B0-05-10-00	VOLT-5 VOLT EXCITATION MOD AFT	D1C013	06	4.5/5.5 VOLT
	4615	E	DP1B0-05-10-00		D1C013	07	
M0030-411	4475	E	DP1B0-04-05-00	VOLT-F/U 1 EBW RANGE SAFETY	D1C014	05	0/5 VOLT

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MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VM0031-411*	4476	E	DP180-04-06-00	VOLT-F/U 2 EBW RANGE SAFETY	DIC014*	06	0/5 VOLT
VM0032-416*	4026	E	CP180-15-03-00	VOLT-F/U 1 EBW ULLAGE ROCKET 1	DIC018*	01	0/5 VOLT
	4666	E	DP180-15-03-00		DIC017*	01	
VM0033-416*	4027	E	CP180-15-04-00	VOLT-F/U 2 EBW ULLAGE POCKET 1	DIC018*	02	0/5 VOLT
	4667	E	DP180-15-04-00		DIC017*	02	
VM0034-417*	4030	E	CP180-15-05-00	VOLT-F/U 1 EBW ULLAGE ROCKET 2	DIC018*	03	0/5 VOLT
	4670	E	DP180-15-05-00		DIC017*	03	
VM0035-417*	4031	E	CP180-15-06-00	VOLT-F/U 2 EBW ULLAGE ROCKET 2	DIC018*	04	0/5 VOLT
	4035	E	DP180-15-06-00		DIC017*	04	
VM0036-418*	4032	E	CP180-15-07-00	VOLT-F/U 1 EBW ULLAGE ROCKET 3	DIC017*	05	0/5 VOLT
	4672	E	DP180-15-07-00		DIC017*	05	0/5 VOLT
VM0037-418*	4033	E	CP180-15-08-00	VOLT-F/U 2 EBW ULLAGE ROCKET 3	DIC018*	06	0/5 VOLT
	4673	E	DP180-15-08-00		DIC017*	06	0/5 VOLT
VM0038-404*	4034	E	CP180-15-09-00	VOLT-F/U 1 EBW ULL RKT JETTISON	DIC018*	08	0/5 VOLT
	4674	E	DP180-15-09-00		DIC017*	07	
VM0039-404*	4035	E	CP180-15-10-00	VOLT-F/U 2 EBW ULL RKT JETTISON	DIC018*	08	0/5 VOLTS
	4675	E	DP180-15-10-00		DIC017*	08	
VM0068-411*	3721	E	CP180-05-08-00	VOLT-5 V EXCITATION MOD-FWD 2	DIC014*	01	4.5/5.5 VOLT
	4513	E	DP180-05-08-00		DIC014*	02	
M0069-404*	4102	E	CP180-28-10-00	VOLT-AFT T/M FULL SCALE REF	DIC011*	07	0/5 VOLT
	5100	E	DP180-28-10-00		DIC011*	08	
M0070-404*	4101	E	CP180-28-01/09	VOLT-AFT T/M ZERO VOLT REF	DIC011*	05	0/5 VOLT
	5077	E	DP180-28-01/09		DIC011*	06	
VN0001-411*	3664	E	CP180V03-01-00	MISC-PU SYS LH2 CRSE MASS VOLT	DIC015*	01	0/5 VOLT
	4445	E	DP180V03-01-00		DIC015*	02	
VXN0002-411*	3665	E	CP180-03-02-00	MISC-PU SYS LH2 FINE MASS VOLT	DIC015*	03	0/5 VOLT
	4446	E	DP180-03-02-00		DIC015*	04	
VN0003-411*	3666	E	CP180V03-03-00	MISC-PU SYS LOX CRSE MASS VOLT	DIC015*	05	0/5 VOLT
	4447	E	DP180V03-03-00		DIC015*	06	

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MEASUREMENT NUMBER	DISPLAY	P	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VXN0004-411	3667	E	CP180-03-04-00	MISC-PU SYS LOX FINE MASS VOLT	01C015	07	0/5 VOLT
	4450	E	DP180-03-04-00		01C015	08	
N0005-411	4451	B	DP180-03-05-00	MISC-PU SYSTEM ERROR SIGNAL			0/5 VOLT
N0018-411	3671	E	CP180-03-06-00	MISC-PCM/FM XMIT OUTPUT POWER	01C019	01	0/145 MV
	4452	E	DP180-03-06-00		01C019	02	
N0037-414	4063	E	CP180-23-07-00	MISC-QTY-OXID TANK MOD 1 (APS)	01C001	01	0/10 IN
	5064	E	DP180-23-07-00		01C001	02	
N0038-415	4064	E	CP180-23-08-00	MISC-QTY-OXID TANK MOD 2 (APS)	01C003	01	0/10 IN
	5065	E	DP180-23-08-00		01C003	02	
N0039-414	4065	E	CP180-23-09-00	MISC-QTY-FUEL TANK MOD 1 (APS)	01C002	01	0/10 IN
	5066	E	DP180-23-09-00		01C002	02	
N0040-415	4066	E	CP180-23-10-00	MISC-QTY-FUEL TANK MOD 2 (APS)	01C004	01	0/10 IN
	5067	E	DP180-23-10-00		01C004	02	
N0055-411	3720	E	CP180-05-07-00	MISC-T/M RF SYS REFL PWK CHAN-1	01C019	03	0/109 MV
	4512	E	DP180-05-07-00		01C019	04	
VN0057-411	3674	E	CP180-03-09-00	MISC-SEC R/S RCVR 1 L/L SIG STR	01C014	07	0/5 MV
VN0062-411	3675	E	CP180-03-10-00	MISC-SEC R/S RCVR 2 L/L SIG STR	01C014	08	0/5 MV
XN0063-411	4511	E	DP180-05-06-00	MISC-PU OVEN STABILITY MONITOR	01C016	05	0/5 MV
T0001-401	5035	E	DP180-21-05-00	SPEED-OXIDIZER PUMP	01C024	01	0/12000 RPM
T0002-401	5036	E	DP180-21-06-00	SPEED-FUEL PUMP	01C024	02	0/30000 RPM

* TLM CHAN * MEAS NO *

* D0265-403 *
* D0266-401 *
* A0012-403 *
* D0016-425 *
* D0178-408 *
* D0178-408 *
* M0016-411 *
* M0016-411 *
* M0019-411 *
* M0020-411 *
* D0208-407 *
* D0104-403 *
* D0225-403 *
* K0021-404 *
* K0005-401 *
* K0006-401 *
* K0007-401 *
* K0008-401 *
* K0010-401 *
* K0011-401 *
* K0095-401 *
* K0096-401 *
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* N0002-411 *
* N0003-411 *
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* DP180-04-01-00 *

TLM CHAN	MEAS NO	TLM CHAN	MEAS NO	TLM CHAN	MEAS NO	TLM CHAN	MEAS NO
DP1B0-04-02-00	M0014-411	DP1B0-09U01-03	K0213-424	DP1B0-15-05-00	M0034-417	DP1B0-21-06-00	T0002-401
DP1B0-04-03-00	M0014-411	DP1B0-09U02-01	K0023-424	DP1B0-15-06-00	M0035-417	DP1B0-21-07-00	BLANK
DP1B0-04-04-00	M0022-411	DP1B0-09U02-02	K0110-403	DP1B0-15-07-00	M0036-418	DP1B0-21-08-00	BLANK
DP1B0-04-05-00	M0033-411	DP1B0-09U02-03	K0112-404	DP1B0-15-08-00	M0037-418	DP1B0-21-09-00	BLANK
DP1B0-04-06-00	M0033-411	DP1B0-09U03-01	K0013-401	DP1B0-15-09-00	M0038-418	DP1B0-21-10-00	BLANK
DP1B0-04-07-00	D0244-401	DP1B0-09U03-02	K0012-401	DP1B0-15-10-00	M0039-404	DP1B0-23-01-00	G0001-403
DP1B0-04-08-00	D0244-401	DP1B0-09U03-03	K0014-401	DP1B0-16-00-00	D0010-401	DP1B0-23-02-00	G0002-403
DP1B0-04-09-00	BLANK	DP1B0V09U03-01	K0127-401	DP1B0-17L01-00	C0002-401	DP1B0-23-03-00	G0003-401
DP1B0-04-10-00	BLANK	DP1B0V09U03-02	K0157-401	DP1B0-17L02-00	C0002-401	DP1B0-23-04-00	G0004-401
DP1B0-05-01-00	BLANK	DP1B0-09U04-03	BLANK	DP1B0-17L03-00	C0006-405	DP1B0-23-05-00	G0006-401
DP1B0-05-02-00	BLANK	DP1B0-09-05-00	BLANK	DP1B0-17L04-00	C0006-401	DP1B0-23-06-00	G0017-401
DP1B0-05-03-00	C0211-411	DP1B0-09-06-00	BLANK	DP1B0-17L05-00	C0006-403	DP1B0-23-07-00	N0037-414
DP1B0-05-04-00	BLANK	DP1B0-09-07-00	BLANK	DP1B0-17L06-00	C0006-403	DP1B0-23-08-00	N0038-415
DP1B0-05-05-00	BLANK	DP1B0-09-08-00	BLANK	DP1B0-17L07-00	C0009-405	DP1B0-23-09-00	N0039-414
DP1B0-05-06-00	N0063-411	DP1B0-09-09-00	BLANK	DP1B0-17L08-00	C0010-403	DP1B0-23-10-00	N0040-415
DP1B0-05-07-00	N0063-411	DP1B0-09-10-00	BLANK	DP1B0-17L09-00	C0011-401	DP1B0-23-10-00	N0040-415
DP1B0-05-08-00	M0066-411	DP1B0-10-00-00	D0001-401	DP1B0-17L10-00	C0012-401	DP1B0-23-10-00	K0132-404
DP1B0-05-09-00	M0066-411	DP1B0-11-01-00	C0159-424	DP1B0-18L01-00	C0133-401	DP1B0-23-10-00	K0133-404
DP1B0-05-10-00	M0022-411	DP1B0-11-02-00	C0161-424	DP1B0-18L02-00	C0134-401	DP1B0-23-10-00	K0134-404
DP1B0-05-11-00	M0022-411	DP1B0-11-03-00	C0050-401	DP1B0-18L03-00	C0197-401	DP1B0-23-10-00	K0135-404
DP1B0-05-12-00	D0005-401	DP1B0-11-04-00	C0168-414	DP1B0-18L04-00	C0198-401	DP1B0-23-10-00	M0065-404
DP1B0-05-13-00	D0005-401	DP1B0-11-05-00	C0170-414	DP1B0-18L05-00	C0199-401	DP1B0-23-10-00	BLANK
DP1B0-05-14-00	D0005-401	DP1B0-11-06-00	C0171-415	DP1B0-18L06-00	C0200-401	DP1B0-23-10-00	BLANK
DP1B0-05-15-00	D0005-401	DP1B0-11-07-00	L0087-403	DP1B0-18L07-00	C0208-405	DP1B0-23-10-00	BLANK
DP1B0-05-16-00	D0005-403	DP1B0-11-08-00	BLANK	DP1B0-18L08-00	C0215-401	DP1B0-23-10-00	BLANK
DP1B0-05-17-00	D0005-403	DP1B0-11-09-00	C0104-404	DP1B0-18L09-00	C0003-403	DP1B0-23-10-00	BLANK
DP1B0-05-18-00	BLANK	DP1B0-12-00-00	D0016-401	DP1B0-18L10-00	C0004-403	DP1B0-23-10-00	BLANK
DP1B0-05-19-00	BLANK	DP1B0-12-01-00	D0002-402	DP1B0-19L01-00	C0016-424	DP1B0-23-10-00	BLANK
DP1B0-05-20-00	BLANK	DP1B0-13-02-00	D0003-403	DP1B0-19L02-00	C0016-424	DP1B0-23-10-00	BLANK
DP1B0-05-21-00	BLANK	DP1B0-13-03-00	D0017-401	DP1B0-19L03-00	C0040-406	DP1B0-23-10-00	BLANK
DP1B0-05-22-00	D0065-414	DP1B0-13-04-00	D0019-401	DP1B0-19L04-00	C0051-403	DP1B0-23-10-00	BLANK
DP1B0-05-23-00	D0065-414	DP1B0-13-05-00	D0041-403	DP1B0-19L05-00	C0136-403	DP1B0-23-10-00	BLANK
DP1B0-05-24-00	D0065-414	DP1B0-13-06-00	D0043-403	DP1B0-19L06-00	C0157-404	DP1B0-23-10-00	BLANK
DP1B0-05-25-00	D0065-414	DP1B0-13-07-00	D0064-414	DP1B0-19L07-00	C0157-404	DP1B0-23-10-00	BLANK
DP1B0-05-26-00	D0065-414	DP1B0-13-08-00	D0065-414	DP1B0-19L08-00	C0230-404	DP1B0-23-10-00	BLANK
DP1B0-05-27-00	D0065-414	DP1B0-13-09-00	D0065-414	DP1B0-19L09-00	C2031-404	DP1B0-23-10-00	BLANK
DP1B0-05-28-00	D0065-414	DP1B0-13-10-00	D0069-415	DP1B0-19L10-00	C2031-404	DP1B0-23-10-00	BLANK
DP1B0-05-29-00	D0069-414	DP1B0-13-11-00	D0160-403	DP1B0-19L11-00	C0165-414	DP1B0-23-10-00	BLANK
DP1B0-05-30-00	D0092-415	DP1B0-14-01-00	D0179-406	DP1B0-20L01-00	C0167-415	DP1B0-23-10-00	BLANK
DP1B0-05-31-00	D0092-415	DP1B0-14-02-00	D0180-406	DP1B0-20L02-00	C0167-415	DP1B0-23-10-00	BLANK
DP1B0-06-01-00	D0093-414	DP1B0-14-03-00	D0245-404	DP1B0-20L03-00	BLANK	DP1B0-23-10-00	BLANK
DP1B0-06-02-00	D0093-414	DP1B0-14-04-00	D0245-404	DP1B0-20L04-00	BLANK	DP1B0-23-10-00	BLANK
DP1B0-06-03-00	D0095-415	DP1B0-14-05-00	M0015-404	DP1B0-20L05-00	BLANK	DP1B0-23-10-00	BLANK
DP1B0-06-04-00	D0095-415	DP1B0-14-06-00	M0015-404	DP1B0-20L06-00	BLANK	DP1B0-23-10-00	BLANK
DP1B0-06-05-00	D0105-403	DP1B0-14-07-00	M0021-404	DP1B0-20L07-00	BLANK	DP1B0-23-10-00	BLANK
DP1B0-06-06-00	D0105-403	DP1B0-14-08-00	M0021-404	DP1B0-20L08-00	BLANK	DP1B0-23-10-00	BLANK
DP1B0-06-07-00	D0216-403	DP1B0-14-09-00	M0022-404	DP1B0-20L09-00	BLANK	DP1B0-23-10-00	BLANK
DP1B0-06-08-00	D0216-403	DP1B0-14-10-00	M0022-404	DP1B0-20L10-00	BLANK	DP1B0-23-10-00	BLANK
DP1B0-06-09-00	60005-401	DP1B0-15-01-00	M0006-401	DP1B0-21-01-00	F0001-401	DP1B0-23-10-00	BLANK
DP1B0-06-10-00	60009-401	DP1B0-15-02-00	M0007-401	DP1B0-21-02-00	F0002-401	DP1B0-23-10-00	BLANK
DP1B0-06-11-00	K0001-410	DP1B0-15-03-00	M0032-416	DP1B0-21-03-00	F0004-424	DP1B0-23-10-00	BLANK
DP1B0-06-12-00	K0212-404	DP1B0-15-04-00	M0033-416	DP1B0-21-04-00	F0005-404	DP1B0-23-10-00	BLANK
DP1B0-06-13-00	K0212-404	DP1B0-15-05-00	M0033-416	DP1B0-21-05-00	T0001-401	DP1B0-23-10-00	BLANK

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MEASUREMENT NUMBER	DISPLAY NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VA0002-603	3732	E	CP1A0-09-00-00	ACCELERATION, LONGT	D50013	01	0 TO 6 G
	17207		DF1-09		D50001	07	
A0003-603	4732	E	DP1A0V18-08-00	ACCELERATION, LONGT	D50013	02	+0.5 G
	17200		DF1-02		D50001	01	
VA0004-601	4733	E	DP1A0V18-09-00	ACCELERATION PITCH CONTROL	D50013	03	+5 M/SEC/SEC
	17202		DF1-04		D50001	02	
VA0005-603	4734	E	DP1A0V18-10-00	ACCELERATION YAW CONTROL	D50013	04	+5 M/SEC/SEC
	17203		DF1-05		D50001	03	
C0006-601	4370	E	DP1A0-01-06-00	TEMP, SUBLIMATOR WATER INLET	D50020	02	0 TO 30 DEG C
VXC0015-601	4363	E	DP1A0-01-01-00	TEMP, COOLANT CONTROL	D50020	05	10 TO 20 DEG C
	3613		CP1A0-01-01-00		D50020	06	
XC0025-602	4364	E	DP1A0-01-02-00	TEMP, IU EXIT COOLANT	D50020	03	0 TO 30 DEG C
	3614		CP1A0-01-02-00		D50020	04	
C0026-601	4367	E	DP1A0-01-05-00	TEMP, S-IVB EXIT COOLANT	D50020	07	15 TO 25 DEG C
	3617		CP1A0-01-05-00		D50020	08	
VC0034-603	4371	E	DP1A0-01-07-00	TEMP, ST-124M INTERNAL GIMBAL	D50014	04	35 TO 60 DEG C
	3621		CP1A0-01-07-00		D50014	05	
VC0053-603	4372	E	DP1A0-01-08-00	TEMP, GUID COMPUTER (LOGIC PAGE)	D50026	01	0 TO 100 DEG C
	3622		CP1A0-01-08-00		D50026	02	
VC0054-603	4704	E	DP1A0-17-06-00	TEMP, GUID COMPUTER (MEMORY)	D50026	03	0 TO 100 DEG C
VC0055-603	4373	E	DP1A0-01-09-00	TEMP, DATA ADAPTER (2A10A5)	D50026	05	0 TO 100 DEG C
	3623		CP1A0-01-09-00		D50026	06	
VC0056-603	4705	E	DP1A0-17-07-00	TEMP, DATA ADAPTER (2A10A11)	D50026	07	0 TO 100 DEG C
VC0057-900	5054	E	DP1A0-22-10-00	TEMP, Q-BALL INTERNAL	D50034	05	0 TO 100 DEG C
VC0062-603	5022	E	DP1A0-21-04-00	TEMP, ACCEL. SIG. COND.	D50014	06	10 TO 75 DEG C
VC0063-603	5023	E	DP1A0-21-05-00	TEMP, ST-124M ELECTRONIC BOX	D50014	07	10 TO 75 DEG C
XC0064-601	3620	E	CP1A0-01-06-00	TEMP, BATTERY = 1	D50023	05	0 TO 70 DEG C

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MEASUREMENT NUMBER	DISPLAY	P	TELEMETRY REQUEST	C	CHANNEL NUMBER	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
XC0066-601	3660	E			CP1A0-03-07-00	TEMP, BATTERY=3	D5D023	07	0 TO 70 DEG C
VC0067-603	5024	E			DP1A0-21-06-00	TEMP, 250 VA INVERTER	D5D014	08	10 TO 75 DEG C
XC0068-601	3661	E			CP1A0-03-08-00	TEMP, BATTERY=4	D5D023	08	0 TO 70 DEG C
C0069-602	4374	E			DP1A0-01-10-00	TEMP, CONTROL COMPUTER	D5D030	07	-100 TO 200 DEG C
	3624	E			CP1A0-01-10-00		D5D030	08	
C0084-601	4516	E			DP1A0-06-01-00	SPECIMEN TC-1, PANEL 1			-150 TO 150 DEG C
C0085-601	4517	E			DP1A0-06-02-00	SPECIMEN TC-2, PANEL 1			-150 TO 150 DEG C
C0086-601	4520	E			DP1A0-06-03-00	SPECIMEN TC-3, PANEL 1			-150 TO 150 DEG C
C0087-601	4521	E			DP1A0-06-04-00	SPECIMEN TC-4, PANEL 1			-150 TO 150 DEG C
C0088-601	4522	E			DP1A0-06-05-00	SPECIMEN TC-5, PANEL 1			-150 TO 150 DEG C
C0089-601	4523	E			DP1A0-06-06-00	SPECIMEN TC-6, PANEL 1			-150 TO 150 DEG C
C0090-601	4524	E			DP1A0-06-07-00	SPECIMEN TC-7, PANEL 1			-150 TO 150 DEG C
C0091-601	4525	E			DP1A0-06-08-00	SPECIMEN TC-8, PANEL 1			-150 TO 150 DEG C
C0092-601	4526	E			DP1A0-06-09-00	SPECIMEN TC-9, PANEL 1			-150 TO 150 DEG C
C0093-601	4527	E			DP1A0-06-10-00	SPECIMEN TC-10, PANEL 1			-150 TO 150 DEG C
C0094-601	4546	E			DP1A0-07-05-00	SPECIMEN TC-11, PANEL 1			-150 TO 150 DEG C
C0095-601	4547	E			DP1A0-07-06-00	SPECIMEN TC-12, PANEL 1			-150 TO 150 DEG C
C0096-602	4550	E			DP1A0-07-07-00	SPECIMEN TC-1, PANEL 2			-150 TO 150 DEG C
C0097-602	4551	E			DP1A0-07-08-00	SPECIMEN TC-2, PANEL 2			-150 TO 150 DEG C
C0098-602	4706	E			DP1A0-17-08-00	SPECIMEN TC-3, PANEL 2			-150 TO 150 DEG C
C0099-602	4707	E			DP1A0-17-09-00	SPECIMEN TC-4, PANEL 2			-150 TO 150 DEG C
C0100-602	4552	E			DP1A0-07-09-00	SPECIMEN TC-5, PANEL 2			-150 TO 150 DEG C
C0101-602	4724	E			DP1A0-18-02-00	SPECIMEN TC-6, PANEL 2			-150 TO 150 DEG C

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MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
C0102-602	4725	E	DP1A0-18-03-00	SPECIMEN TC-7, PANEL 2			-150 TO 150 DEG C
C0103-602	4726	E	DP1A0-18-04-00	SPECIMEN TC-8, PANEL 2			-150 TO 150 DEG C
C0104-602	4727	E	DP1A0-18-05-00	SPECIMEN TC-9, PANEL 2			-150 TO 150 DEG C
C0105-602	4730	E	DP1A0-18-06-00	SPECIMEN TC-10, PANEL 2			-150 TO 150 DEG C
C0106-602	4731	E	DP1A0-18-07-00	SPECIMEN TC-11, PANEL 2			-150 TO 150 DEG C
C0107-602	4553	E	DP1A0-07-10-00	SPECIMEN TC-12, PANEL 2			-150 TO 150 DEG C
C0108-601	5027	E	DP1A0-21-09-00	TEMPERATURE PANEL 1			-150 TO 150 DEG C
C0109-602	5030	E	DP1A0-21-10-00	TEMPERATURE PANEL 2			-150 TO 150 DEG C
VD0001-900	5025	E	DP1A0-21-07-00	EOS DELTA P PITCH, Q-BALL	D5D0034	03	+4 PSID
VD0003-900	5026	E	DP1A0-21-08-00	EOS DELTA P YAW, Q-BALL	D5D0034	04	+4 PSID
XD0010-603	4407	E	OP1A0-02-01-00	PRESSURE, GN2 REGULATOR INLET	D5D0021	01	0 TO 3500 PSIA
	3637		CP1A0-02-01-00		D5D0021	02	
XD0011-603	4410	E	DP1A0-02-02-00	PRESSURE, ST-124M AIR BEARING INLET	D5D0021	03	0 TO 20 PSID
	3640		CP1A0-02-02-00		D5D0021	04	
VD0012-603	4411	E	DP1A0-02-03-00	PRESSURE, INTERNAL AMBIENT ST-124M	D5D0021	05	0 TO 35 PSIA
	3641		CP1A0-02-03-00		D5D0021	06	
XD0017-601	4412	E	DP1A0-02-04-00	PRESSURE, COOLANT MANIFOLD INLET	D5D0021	07	0 TO 60 PSIA
	3642		CP1A0-02-04-00		D5D0021	08	
VXD0024-601	4413	E	DP1A0-02-05-00	INLET PRESSURE COOLANT PUMP	D5D0022	01	0 TO 35 PSIA
XD0025-601	4414	E	DP1A0-02-06-00	PRESS, GN2 REG INLET (T.C. SYS)	D5D0022	02	0 TO 3500 PSIA
	3644		CP1A0-02-06-00		D5D0022	03	
VD0035-900	4710	E	DP1A0-17-10-00	VECTOR SUM, Q-BALL REDUNDANT	D5D0034	06	0 TO 4 PSID
D0043-601	4732	E	DP1A0V18-08-00	PRESS, SUBLIMATOR WATER INLET	D5D0022	04	0 TO 3 PSIA
F0001-601	4702	E	DP1A0V17-04-00	FLOW RATE SUBLIMATOR INLET WATER	D5D0022	06	.01 TO .08 GPM
	17210		DF1-10		D5D0001	08	

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MEASUREMENT NUMBER	DISPLAY	P	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VXF0009-602	4443	E	DP1A0-03-09-00	FLOW RATE IU EXIT COOLANT	05D023	01	1.5 TO 2.5 GPM
	3662		CP1A0-03-09-00		05D023	02	
VXF0010-601	4444	E	DP1A0-03-10-00	FLOW RATE S-IVR INLET COOLANT	05D023	03	1.5 TO 9 GPM
	3663		CP1A0-03-10-00		05D023	04	

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***** MEASUREMENT *****	***** DISPLAY *****	***** TELEMETRY *****	***** MEASUREMENT *****	***** RECORD *****	***** TR *****	***** RANGE/REMARKS *****
NUMBER	REQUEST	C CHANNEL	DESCRIPTION	NUMBER	NO	

V60001-001	3745	E	CPIA0V10-00-00	POSITION PITCH ACTUATOR	D5D031	02	+ -8 DEG
V60001-002	4054	E	CPIA0V23-00-00	POSITION PITCH ACTUATOR	D5D031	04	+ -8 DEG
V60001-003	4067	E	CPIA0V24-00-00	POSITION PITCH ACTUATOR	D5D031	06	+ -8 DEG
V60001-004	5073	E	DP1A0V27-00-00	POSITION PITCH ACTUATOR	D5D031	08	+ -8 DEG
V60001-400	3745	E	CPIA0V10-00-00	POSITION PITCH ACTUATOR	D5D031	02	+ -7.5 DEG
V60002-001	3747	E	CPIA0V11-00-00	POSITION YAW ACTUATOR	D5D032	02	+ -8 DEG
V60002-002	4071	E	CPIA0V25-00-00	POSITION YAW ACTUATOR	D5D032	04	+ -8 DEG
V60002-003	4073	E	CPIA0V26-00-00	POSITION YAW ACTUATOR	D5D032	06	+ -8 DEG
V60002-004	4075	E	CPIA0V27-00-00	POSITION YAW ACTUATOR	D5D032	08	+ -8 DEG
V60002-400	3747	E	CPIA0V11-00-00	POSITION YAW ACTUATOR	D5D032	02	+ -7.5 DEG
VX60005-601	4635	B	DP1A0-12J09-01	CLOSED POSITION WATER CONTROL VALVE	D5D046	31	0 OR 5 VDC
XG0006-601	4634	B	DP1A0-12J08-01	OPEN POSITION WATER CONTROL VALVE	D5D046	21	0 OR 5 VDC
VH0001-001	3775	E	CPIA0V13-00-00	DELTA I PITCH ACTUATOR	D5D031	01	+ -14 MA
VH0001-002	4774	E	DP1A0V20-02-00	DELTA I PITCH ACTUATOR	D5D031	03	+ -14 MA
VH0001-003	4775	E	DP1A0V20-03-00	DELTA I PITCH ACTUATOR	D5D031	05	+ -14 MA
VH0001-004	4776	E	DP1A0V20-04-00	DELTA I PITCH ACTUATOR	D5D031	07	+ -14 MA
VH0001-403	3775	E	CPIA0V13-00-00	VALVE CURRENT, PITCH ACTUATOR	D5D031	01	+ -50 MA
VH0002-001	4010	E	CPIA0V14-00-00	DELTA I YAW ACTUATOR	D5D032	01	+ -14 MA
VH0002-002	4777	E	DP1A0V20-05-00	DELTA I YAW ACTUATOR	D5D032	03	+ -14 MA
VH0002-003	5000	E	DP1A0V20-06-00	DELTA I YAW ACTUATOR	D5D032	05	+ -14 MA
VH0002-004	5001	E	DP1A0V20-07-00	DELTA I YAW ACTUATOR	D5D032	07	+ -14 MA
VH0002-403	4010	E	CPIA0V14-00-00	VALVE CURRENT, YAW ACTUATOR	D5D032	01	+ -50 MA

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MEASUREMENT NUMBER	DISPLAY NUMBER	P REQUEST	TELEMETRY C CHANNEL	DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VH0003-404	4071	E	CP1A0V25-00-00	ATT CON ENG, PITCH ENG RELAY IP-IIIP	05D016	06	+2.5 VDC
VH0004-404	4073	E	CP1A0V26-00-00	ATT CNTRL ENG, ENGINE RELAY I II-I IV	D5D016	07	+2.5 VDC
VH0005-404	4075	E	CP1A0V27-00-00	ATT CNTRL ENG, ENGINE RELAY III II-III IV	05D016	08	+2.5 VDC
VH0010-603	3724	P	CP1A0-06-00-00	Z ACCELEROMETER PICKUP ST-124M	D5D001	13	+6 DEG
VH0011-603	3726	P	CP1A0-07-00-00	X ACCELEROMETER PICKUP ST-124M	D5D001	11	+6 DEG
VH0012-603	3730	P	CP1A0-08-00-00	Y ACCELEROMETER PICKUP ST-124M	D5D001	16	+6 DEG
H0016-603	17215	*	DF1-15	Z ACCELEROMETER A1	D5D001	14	0.05M/SEC/PULSE
H0017-603	17213	*	DF1-13	Z ACCELEROMETER B1	D5D001	10	0.05M/SEC/PULSE
H0020-603	17220	*	DF1-18	X ACCELEROMETER A1	D5D001	09	0.05M/SEC/PULSE
H0021-603	17216	*	DF1-16	X ACCELEROMETER B1	D5D015	07	0.05M/SEC/PULSE
H0024-603	17212	*	DF1-12	Y ACCELEROMETER A1	D5D015	08	8 TO 12 VAC
H0025-603	17211	*	DF1-11	Y ACCELEROMETER, B1	D5D015	01	8 TO 12 VAC
H0035-603	5020	E	DP1A0-21-02-00	VOLTAGE, 4.8KHZ PLATFORM EXCITATION	D5D015	02	+1 DEG
H0036-603	5021	E	DP1A0-21-03-00	VOLTAGE, 4.8KHZ SERVO AMP SUPPLY	D5D015	03	+1 DEG
VH0040-603	4773	E	DP1A0-20-01-00	Z GYRO PICKUP, ST-124M	D5D015	04	+1 DEG
VH0041-603	4046	*	CP1A0-20-00-00	X GYRO PICKUP, ST-124M	D5D015	05	+1.25 VDC
VH0042-603	5017	E	DP1A0-21-01-00	Y GYRO PICKUP, ST-124M	D5D016	01	+1.25 VDC
VH0044-603	4050	*	CP1A0-21-00-00	OUTPUT Z GYRO SERVO	D5D016	02	+1.25 VDC
H0044-603	5002	E	DP1A0-20-08-00	OUTPUT X GYRO SERVO	D5D016	03	+1.25 VDC
H0045-603	5003	E	DP1A0-20-09-00	OUTPUT Y GYRO SERVO	D5D025	01	+15 DEG
H0046-603	5004	E	DP1A0-20-10-00	ATTITUDE ERROR PITCH, LADDER OUTPUT GUID COMP	D5D025	02	
VH0054-603	4416	E	DP1A0-02-08-00				
	3646	*	CP1A0-02-08-00				

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MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VH0055-603	4417 3647	E	DPIA0-02-09-00 CPIA0-02-09-00	ATTITUDE ERROR YAW, LADDER OUTPUT GUID COMP	D5D025* 03 D5D025* 04		+15 DEG
VH0056-603	4420 3650	E	DPIA0-02-10-00 CPIA0-02-10-00	ATTITUDE ERROR ROLL, LADDER OUTPUT GUID COMP	D5D025* 05 D5D025* 06		+15 DEG
HU0060-603	4135 4136 4137 4140 4141 4142 4143 4144	G	DPIA0-08K00-00 DPIA0-09K00-00 DPIA0-10K00-00 DPIA0-11K00-00 DPIA0-23K00-00 DPIA0-24K00-00 DPIA0-25K00-00 DPIA0-26K00-00	GUID COMP OPERATION			0 OR 28 VDC
VH0069-602	4677 4040	E	DPIA0-17-01-00 CPIA0-17-00-00	ATTITUDE ERROR SIG ANG POS ROLL	D5D030* 05 D5D030* 06		+45 VDC
VH0070-602	4723 4042	E	DPIA0-18-01-00 CPIA0-18-00-00	ATTITUDE ERROR SIG ANG POS YAW	D5D030* 03 D5D030* 04		+45 VDC
VH0071-602	4747 4044	E	DPIA0-19-01-00 CPIA0-19-00-00	ATTITUDE ERROR SIG ANG POS PITCH	D5D030* 01 D5D030* 02		+45 VDC
J0007-603	4366	P	DPIA0-01-04-00	C-BAND RECEIVER INPUT SIGNAL (603A635)	D5D037* 04		-70 TO 0 DBM
J0008-603	3616	P	CPIA0-01-04-00	C-BAND INTERROGATION PRF (603A635)	D5D037* 05		0 TO 1000 PPS
J0020-603	4701	B	DPIA0-17-03-00	COMMAND RECEIVER LIMITER TEST VOLTAGE (TM 1)	D5D037* 01		0 TO 5 VDC
J0029-602	4365 3615	E	DPIA0-01-03-00 CPIA0-01-03-00	RF POWER OUTPUT, P1 TELEMETER	D5D034* 01 D5D034* 02		0 TO 30 WATTS
VJ0069-603	4255 4023	B	DPIA0-15G00-01 CPIA0-15U00-01	ADD VER PULSE NO.1 GUIDANCE DECODER	D5D046* 21 D5D028* 07		0 OR 5 VDC 0 OR 5 VDC
VJ0070-603	4255	B	DPIA0-15G00-02	ADD VERIF PULSE NO.2 - GUIDANCE DECODER	D5D046* 22		0 OR 5 VDC
VXJ0071-603	4267 4036	B	DPIA0-16G00-01 CPIA0-16U00-01	COMP RESET PULSE NO.1 GUIDANCE DECODER	D5D047* 31 D5D028* 08		0 OR 5 VDC
VXJ0072-603	4267	B	DPIA0-16G00-02	COMP RESET PULSE NO.2 GUIDANCE DECODER	D5D047* 32		0 OR 5 VDC
J0073-602	4700	P	DPIA0-17-02-00	C-BAND RECEIVER INPUT SIGNAL (602A634)	D5D037* 06		-70 TO 0 DBM

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MEASUREMENT NUMBER	DISPLAY NUMBER	P REQUEST	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
J0074-602	4415	P	DP1A0-02-07-00	C-BAND INTERROGATION PRF (602A634)	DSD037	07	0 TO 1000 PPS

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MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VK0003-603	4337	B	DP1A0-13600-05	SW SEL ZERO INDICATE	05D047	05	0 OR 5 VDC
VK0004-603	4503	B	DP1A0-05-00-00	SW SEL OUTPUT	05D034	07	0 OR 5 VDC
	3711		CP1A0-05-00-00		05D034	08	
VXK0005-603	4337	B	DP1A0-13600-01	SW SEL STAGE SELECT	05D047	01	0 OR 5 VDC
	4337		DP1A0-13600-03		05D047	03	
	4337		DP1A0-13600-04		05D047	04	
VXK0006-603	4337	B	DP1A0-13600-06	SW SEL READ COMMAND	05D047	06	0 OR 5 VDC
VXK0007-603	4337	B	DP1A0-13600-07	SW SEL RESET	05D047	07	0 OR 5 VDC
VK0008-603	4351	B	DP1A0-14600-01	SW SEL REGISTER	05D047	11	0 OR 5 VDC
	4351		DP1A0-14600-02		05D047	12	
	4351		DP1A0-14600-03		05D047	13	
	4351		DP1A0-14600-04		05D047	14	
	4351		DP1A0-14600-05		05D047	15	
	4351		DP1A0-14600-06		05D047	16	
	4351		DP1A0-14600-07		05D047	17	
	4351		DP1A0-14600-08		05D047	18	
VK0009-602	4633	B	DP1A0-12U07-08	EDS S-1B ONE ENGINE OUT (ENGINES 1-8)	05D046	18	0 OR 28 VDC
VK0010-602	4636	B	DP1A0-12U10-02	EDS S-1B ONE ENGINE OUT (ENGINES 1-8)	05D046	42	0 OR 28 VDC
VK0011-602	4636	B	DP1A0-12U10-03	EDS S-1B TWO ENGINE OUT SIGNAL A	05D046	43	0 OR 28 VDC
VK0012-602	4636	B	DP1A0-12U10-04	EDS S-1B TWO ENGINE OUT SIGNAL B	05D046	44	0 OR 28 VDC
VK0013-602	4633	B	DP1A0-12U07-07	EDS +6D95 BUS ENERGIZED	05D046	17	0 OR 28 VDC
	3772		CP1A0-12U09-01		05D028	05	
VK0014-602	4636	B	DP1A0-12U10-05	EDS S-1B OR S-1VB ENGINE CUTOFF FROM SC	05D046	45	0 OR 28 VDC
VK0015-602	4636	B	DP1A0-12U10-01	EDS OR MANUAL CUTOFF OF S-1B OR S-1VB	05D046	41	0 OR 28 VDC
	3773		CP1A0-12U10-01		05D028	06	
VK0016-602	4636	B	DP1A0-12U10-06	EDS/MANUAL CUTOFF OF S-1B OR S-1VB	05D046	46	0 OR 28 VDC
VK0017-602	4636	B	DP1A0-12U10-07	EDS-MANUAL CUTOFF OF S-1B OR S-1VB ENGINE ARMED	05D046	47	0 OR 28 VDC
VK0018-602	4636	B	DP1A0-12U10-08	EDS-MANUAL CUTOFF OF S-1B OR S-1VB ENGINE ARMED	05D046	48	0 OR 28 VDC

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MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VK0019-602	4625	B	DP1A0-12J01-01	MODE SWITCH, SPACECRAFT - IU	05D045	01	0 OR 28 VDC
	3762	B	CP1A0-12U01-01		05D027	05	0 OR 28 VDC
VK0020-602	4625	B	DP1A0-12J02-01	S-IVB BURN	05D045	11	0 OR 28 VDC
	3763	B	CP1A0-12U02-01		05D027	06	
VK0021-602	4627	B	DP1A0-12J03-01	S-IB BURN	05D027	07	0 OR 28 VDC
	3764	B	CP1A0-12U03-01				
VK0022-602	4630	B	DP1A0-12J04-01	SERVO AMPLIFIER COMPARTOR PITCH	05D045	21	0 OR 28 VDC
	3765	B	CP1A0-12U04-01		05D027	08	
VK0023-602	4631	B	DP1A0-12J05-01	SERVO AMPLIFIER COMPARTOR YAW	05D045	31	0 OR 28 VDC
	3766	B	CP1A0-12U05-01		05D028	01	
VK0024-602	4632	B	DP1A0-12J06-01	SPATIAL AMPLIFIER COMPARTOR ROLL-YAW 1	05D045	41	0 OR 28 VDC
	3766	B	CP1A0-12U06-01		05D028	02	
VK0025-602	4633	B	DP1A0-12J07-01	SPATIAL AMPLIFIER COMPARTOR PITCH	05D046	11	0 OR 28 VDC
	3770	B	CP1A0-12U07-01		05D028	03	
VK0026-602	4633	B	DP1A0-12J07-06	SPAT AMP COMPARTOR ROLL-YAW II	05D046	16	0 OR 28 VDC
	3771	B	CP1A0-12U08-01		05D028	04	
VK0032-601	4625	B	DP1A0-12J01-02	CONT ACCEL ON IND	05D045	02	0 OR 28 VDC
VK0033-603	4625	B	DP1A0-12J01-03	CONT COMP ON IND BUS +6D11	05D045	03	0 OR 28 VDC
VK0034-603	4625	B	DP1A0-12J01-04	CONT COMP ON IND BUS +6D31	05D045	04	0 OR 28 VDC
VK0035-603	4625	B	DP1A0-12J01-05	CONTROL COMPUTER ON INDICATION BUS +6D31	05D045	05	0 OR 28 VDC
VK0036-602	4625	B	DP1A0-12J01-06	CONT SIG PROCESSOR ON IND	05D045	06	0 OR 28 VDC
VK0037-603	4625	B	DP1A0-12J01-07	SWITCH SELECTOR REGISTER TEST	05D045	07	0 OR 28 VDC
VK0038-601	4625	B	DP1A0-12J01-08	RADAR TRANSPONDER POWER ON (603A635)	05D045	08	0 OR 28 VDC
VK0042-602	4626	B	DP1A0-12J02-02	F1 RF ASSY ON IND	05D045	12	0 OR 28 VDC
VK0043-602	4626	B	DP1A0-12J02-03	F1 TM ASSY ON IND	05D045	13	0 OR 28 VDC
VK0047-602	4626	B	DP1A0-12J02-05	PCM/DDAS TM ASSY ON IND	05D045	15	0 OR 28 VDC

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MEASUREMENT NUMBER	DISPLAY NUMBER	P REQUEST	TELEMETRY C CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VK0054-601	4626	B	DP1A0-12J02-06	MEAS RACKS ON IND	D5D045	16	0 OR 28 VDC
VK0055-602	4626	B	DP1A0-12J02-07	MEAS XFERED TO DDAS	D5D045	17	0 OR 28 VDC
VK0056-602	4626	B	DP1A0-12J02-08	TM CAL ASSY ON INL	D5D045	18	0 OR 28 VDC
VK0057-603	4626	B	DP1A0-12J02-09	Q-BALL ON INDICATION BUS +6D11	D5D045	19	0 OR 28 VDC
VK0058-603	4626	B	DP1A0-12J02-10	Q-BALL ON INDICATION BUS +6D41	D5D045	20	0 OR 28 VDC
VK0061-603	4750	E	DP1A0-19-02-00	SUMMATION GYRO CURRENTS (ST-124 M-3)	D5D016	04	0 TO 7.5 VDC
VK0062-603	4751	E	DP1A0-19-03-00	SUMMATION ACCEL CURRENTS ST124 M-3	D5D016	05	0 TO 7.5 VDC
VK0063-602	4627	B	DP1A0-12J03-04	S-1B STAGE SEP	D5D045	24	0 OR 28 VDC
VK0066-602	4626	B	DP1A0-12J02-04	RF ASSY P1 ON IND	D5D045	14	0 OR 28 VDC
K0067-603	4627	B	DP1A0-12J03-05	1U COM REC + DEC ON INDICATION	D5D045	25	0 OR 28 VDC
VK0091-602	4636	B	DP1A0-12J10-10	EDS S-1B OR S-1VB ENG CUTOFF FROM SC	D5D046	50	0 OR 28 VDC
VK0095-602	4633	B	DP1A0-12J07-05	RADAR TRANSPONDER POWER ON (602A634)	D5D046	15	0 OR 28 VDC
VK0123-602	4634	B	DP1A0-12J08-08	EDS SW POINT MON 1	D5D046	28	0 OR 5 VDC
VK0124-602	4634	B	DP1A0-12J08-09	EDS SW POINT MON 2	D5D046	29	0 OR 5 VDC
VK0125-602	4634	B	DP1A0-12J08-10	EDS SW POINT MON 3	D5D046	30	0 OR 5 VDC
VK0137-603	4630	B	DP1A0-12J04-09	C BAND INHIBIT (603A635)	D5D045	39	0 OR 28 VDC
VK0138-602	4630	B	DP1A0-12J04-10	C BAND INHIBIT (602A634)	D5D045	40	0 OR 28 VDC
VK0140-602	4627	B	DP1A0-12J03-07	INV DET MONITOR	D5D045	27	0 OR 28 VDC
K0151-601	4757	B	DP1A0-19-09-00	PANEL NO 1 DEPLOYMENT			0 OR 5 VDC
K0152-602	4760	B	DP1A0-19-10-00	PANEL NO 2 DEPLOYMENT			0 OR 5 VDC
K0161-601	4625	B	DP1A0-12J01-09	COOLANT PUMP NO.2 POWER ON 601A62	D5D045	09	0 OR 28 VDC
K0279-602	5101	B	DP1A0-29-00-00	MASTER PULSE, MOD 270 (DP1A0) MULTIPLEXER ASSY			0 OR 5 VDC

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MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VM0001-602	4470	E	DP1A0-04-10-00	MEASURING VOLTAGE	D5D035	01	0 TO 5 VDC
VM0002-602	3707	E	CP1A0-04-10-00	BETA COMMAND VOLTAGE	D5D036	01	0 TO 9 VDC
	5046	E	DP1A0-22-04-00		D5D029	01	
VM0003-601	5044	E	DP1A0-22-02-00	VOLTAGE, 56VDC SUPPLY	D5D013	05	50 TO 60 VDC
M0006-603	4460	E	DP1A0-04-02-00	VOLTAGE 250 VA INVERTER PHASE AB	D5D013	07	22 TO 30 VAC
	3677	E	CP1A0-04-02-00		D5D013	08	
M0007-603	5047	E	DP1A0-22-05-00	VOLTAGE 250 VA INVERTER PHASE BC	D5D014	01	22 TO 30 VAC
M0008-603	4461	E	DP1A0-04-03-00	VOLTAGE 250 VA INVERTER PHASE CA	D5D014	02	22 TO 30 VAC
	3700	E	CP1A0-04-03-00		D5D014	03	
XM0012-601	4462	E	DP1A0-04-04-00	6D11 BUS VOLTAGE	D5D035	02	24 TO 32 VDC
	3701	E	CP1A0-04-04-00		D5D036	02	
XM0014-601	4464	E	DP1A0-04-06-00	6D31 BUS VOLTAGE	D5D035	03	24 TO 32 VDC
	3703	E	CP1A0-04-06-00		D5D036	03	
XM0016-601	4465	E	DP1A0-04-07-00	6D10 BATTERY CURRENT	D5D035	05	0 TO 100 AMPS
	3704	E	CP1A0-04-07-00		D5D036	05	
XM0018-601	4467	E	DP1A0-04-09-00	6D30 BATTERY CURRENT	D5D035	06	0 TO 100 AMPS
	3706	E	CP1A0-04-09-00		D5D036	06	
XM0019-601	4463	E	DP1A0-04-05-00	6D41 BUS VOLTAGE	D5D035	04	24 TO 32 VDC
	3702	E	CP1A0-04-05-00		D5D036	04	
XM0020-601	4466	E	DP1A0-04-08-00	6D40 BATTERY CURRENT	D5D035	07	0 TO 100 AMPS
	3705	E	CP1A0-04-08-00		D5D036	07	
VM0021-602	4633	B	DP1A0-12J07-04	EDS BUS VOLTAGE +6D91	D5D046	14	0 OR 28 VDC
VM0022-602	4633	B	DP1A0-12J07-10	EDS BUS VOLTAGE +6D92	D5D046	20	0 OR 28 VDC
VM0023-602	4633	B	DP1A0-12J07-09	EDS BUS VOLTAGE +6D93	D5D046	19	0 OR 28 VDC
VM0024-603	5050	E	DP1A0-22-06-00	DATA ADAPTOR +20 VOLT SUPPLY	D5D024	01	0 TO 20 VDC
VM0025-603	5051	E	DP1A0-22-07-00	DATA ADAPTOR +12 VOLT SUPPLY	D5D024	02	0 TO 12 VDC
VM0026-603	5052	E	DP1A0-22-08-00	DATA ADAPTOR +6V SUPPLY (LVDC)	D5D024	03	0 TO 6 VDC

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MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VM0027-603*	5053	E	DP1A0-22-09-00	DATA ADAPTOR -3 VOLT SUPPLY	05D024*	04	-3 TO 0 VDC
VM0028-603*	4752	E	DP1A0-19-04-00	DATA ADAPTOR -20 VOLT SUPPLY	05D024*	05	-20 TO 0 VDC
VM0029-603*	4753	E	DP1A0-19-05-00	DATA ADAPTOR +6V SUPPLY (LVDA)	05D024*	06	0 TO 6 VDC
M0069-602*	5075	E	DP1A0-28-01-00	VOLTAGE, MOD 270 (DP1A0) MUX ZERO REFERENCE			0 TO 5 VDC
M0070-602*	5076	E	DP1A0-28-10-00	VOLTAGE, MOD 270 (DP1A0) MUX 5V REFERENCE			0 TO 5 VDC
M0071-602*	4077	E	CP1A0-28-01-00	VOLTAGE, MOD 270 (CP1A0) MUX ZERO REFERENCE			0 TO 5 VDC
M0072-602*	4100	E	CP1A0-28-10-00	VOLTAGE, MOD 270 (CP1A0) MUX 5V REFERENCE			0 TO 5 VDC

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MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VR0004-602	4433	E	DP1A0-03-01-00	ANG VEL, PITCH CONTROL (AMP = 1)	D5D029	02	+10 DEG/SEC
	3652		CP1A0-03-01-00		D5D029	03	
VR0005-602	4434	E	DP1A0-03-02-00	ANG VEL, YAW CONTROL (AMP = 1)	D5D029	04	+10 DEG/SEC
	3653		CP1A0-03-02-00		D5D029	05	
VR0006-602	4435	E	DP1A0-03-03-00	ANG VEL, ROLL CONTROL (AMP = 1)	D5D029	06	+10 DEG/SEC
	3654		CP1A0-03-03-00		D5D029	07	
VR0008-602	4436	E	DP1A0-03-04-00	ANG VEL, YAW EDS GROUP 1 (REF)	D5D033	01	+10 DEG/SEC
VR0012-602	4437	E	DP1A0-03-05-00	ANG VEL, ROLL EDS GROUP 2 (REF)	D5D033	02	+10 DEG/SEC
VR0013-602	4440	E	DP1A0-03-06-00	ANG VEL, PITCH EDS GROUP 3 (REF)	D5D033	03	+10 DEG/SEC
VR0016-602	4635	B	DP1A0-12J09-02	PITCH RATE SW, EDS GROUP 1	D5D046	32	0 OR 5 VDC
VR0017-602	4635	B	DP1A0-12J09-03	YAW RATE SW EDS GP 1	D5D046	33	0 OR 5 VDC
VR0018-602	4635	B	DP1A0-12J09-04	ROLL RATE SW EDS GP 1	D5D046	34	0 OR 5 VDC
VR0019-602	4635	B	DP1A0-12J09-05	PITCH RATE SW EDS GP 2	D5D046	35	0 OR 5 VDC
VR0020-602	4635	B	DP1A0-12J09-06	YAW RATE SW EDS GP 2	D5D046	36	0 OR 5 VDC
VR0021-602	4635	B	DP1A0-12J09-07	ROLL RATE SW EDS GP 2	D5D046	37	0 OR 5 VDC
VR0022-602	4635	B	DP1A0-12J09-08	PITCH RATE SW EDS GP 3	D5D046	38	0 OR 5 VDC
VR0023-602	4635	B	DP1A0-12J09-09	YAW RATE SW, EDS GROUP 3	D5D046	39	0 OR 5 VDC
VR0024-602	4635	B	DP1A0-12J09-10	ROLL RATE SW, EDS GROUP 3	D5D046	40	0 OR 5 VDC
VR0025-602	4634	B	DP1A0-12J08-02	EDS COMPARTOR RELAY, MONITOR (ROLL)	D5D046	22	0 OR 5 VDC
VR0026-602	4634	B	DP1A0-12J08-03	EDS COMPARTOR RELAY, MONITOR (YAW)	D5D046	23	0 OR 5 VDC
VR0027-602	4634	B	DP1A0-12J08-04	EDS COMPARTOR RELAY, MONITOR (PITCH)	D5D046	24	0 OR 5 VDC
VR0028-602	4634	B	DP1A0-12J08-05	EDS WHEEL SPEED, GROUP 1	D5D046	25	0 OR 5 VDC
VR0029-602	4634	B	DP1A0-12J08-06	EDS WHEEL SPEED, GROUP 2	D5D046	26	0 OR 5 VDC
VR0030-602	4634	B	DP1A0-12J08-07	EDS WHEEL SPEED, GROUP 3	D5D046	27	0 OR 5 VDC

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MEASUREMENT NUMBER	DISPLAY	P	TELEMETRY CHANNEL	REQUEST NUMBER	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VR0031-602	4635	B	DP1A0-12J07-02		EDS RATE GYRO ROLL ACTIVATE	D5D046	12	0 OR 28 VDC
VR0032-602	4633	B	DP1A0-12J07-03		EDS RATE GYRO PITCH + YAW ACTIVATE	D5D046	13	0 OR 28 VDC
VR0033-602	4754	E	DP1A0-19-06-00		EDS MONITOR ANG VEL ROLL GROUP 1	D5D033	04	+23.36 DEG/SEC
VR0034-602	4755	E	DP1A0-19-07-00		EDS MONITOR ANG VEL ROLL GROUP 2	D5D033	05	+23.36 DEG/SEC
VR0035-602	4756	E	DP1A0-19-08-00		EDS MONITOR ANG VEL ROLL GROUP 3	D5D033	06	+23.36 DEG/SEC


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* TLM CHAN * MEAS NO *
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* DP1A0-12J07-06 * K0026-602 *
* DP1A0-12J07-07 * K0013-602 *
* DP1A0-12J07-08 * K0009-602 *
* DP1A0-12J07-09 * M0023-602 *
* DP1A0-12J07-10 * M0022-602 *
* DP1A0-12J08-01 * G0006-601 *
* DP1A0-12J08-02 * R0025-602 *
* DP1A0-12J08-03 * R0026-602 *
* DP1A0-12J08-04 * R0027-602 *
* DP1A0-12J08-05 * R0028-602 *
* DP1A0-12J08-06 * R0029-602 *
* DP1A0-12J08-08 * K0123-602 *
* DP1A0-12J08-09 * K0124-602 *
* DP1A0-12J08-10 * K0125-602 *
* DP1A0-12J09-01 * G0005-601 *
* DP1A0-12J09-02 * R0016-602 *
* DP1A0-12J09-03 * R0017-602 *
* DP1A0-12J09-04 * R0018-602 *
* DP1A0-12J09-05 * R0019-602 *
* DP1A0-12J09-06 * R0020-602 *
* DP1A0-12J09-07 * R0021-602 *
* DP1A0-12J09-08 * R0022-602 *
* DP1A0-12J09-09 * R0023-602 *
* DP1A0-12J09-10 * R0024-602 *
* DP1A0-12J10-01 * K0015-602 *
* DP1A0-12J10-02 * K0010-602 *
* DP1A0-12J10-03 * K0011-602 *
* DP1A0-12J10-04 * K0012-602 *
* DP1A0-12J10-05 * K0014-602 *
* DP1A0-12J10-06 * K0015-602 *
* DP1A0-12J10-07 * K0017-602 *
* DP1A0-12J10-08 * K0018-602 *
* DP1A0-12J10-09 * K0019-602 *
* DP1A0-12J10-10 * K0091-602 *
* DP1A0-13600-01 * K0005-602 *
* DP1A0-13600-02 * BLANK *
* DP1A0-13600-03 * K0005-603 *
* DP1A0-13600-04 * K0005-603 *
* DP1A0-13600-05 * K0003-603 *
* DP1A0-13600-06 * K0006-603 *
* DP1A0-13600-07 * K0007-603 *
* DP1A0-13600-08 * BLANK *
* DP1A0-13600-09 * BLANK *
* DP1A0-13600-10 * BLANK *
* DP1A0-14600-01 * K0008-603 *
* DP1A0-14600-02 * K0008-603 *
* DP1A0-14600-03 * K0008-603 *
* DP1A0-14600-04 * K0008-603 *
* DP1A0-14600-05 * K0008-603 *
* DP1A0-14600-06 * K0008-603 *
* DP1A0-14600-07 * K0008-603 *
* DP1A0-14600-08 * K0008-603 *
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* TLM CHAN * MEAS NO *
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* DP1A0-14600-09 * BLANK *
* DP1A0-14600-10 * BLANK *
* DP1A0-15600-01 * J0069-603 *
* DP1A0-15600-02 * J0070-603 *
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* DP1A0-15600-04 * BLANK *
* DP1A0-15600-05 * BLANK *
* DP1A0-15600-06 * BLANK *
* DP1A0-15600-07 * BLANK *
* DP1A0-15600-08 * BLANK *
* DP1A0-15600-09 * BLANK *
* DP1A0-15600-10 * BLANK *
* DP1A0-16600-01 * J0071-603 *
* DP1A0-16600-02 * J0072-603 *
* DP1A0-16600-03 * BLANK *
* DP1A0-16600-04 * BLANK *
* DP1A0-16600-05 * BLANK *
* DP1A0-16600-06 * BLANK *
* DP1A0-16600-07 * BLANK *
* DP1A0-16600-08 * BLANK *
* DP1A0-16600-09 * BLANK *
* DP1A0-16600-10 * BLANK *
* DP1A0-17-01-00 * BLANK *
* DP1A0-17-02-00 * J0073-602 *
* DP1A0-17-03-00 * J0073-602 *
* DP1A0V17-04-00 * F0001-601 *
* DP1A0-17-05-00 * BLANK *
* DP1A0-17-06-00 * C0054-603 *
* DP1A0-17-07-00 * C0055-603 *
* DP1A0-17-08-00 * C0098-602 *
* DP1A0-17-09-00 * C0099-602 *
* DP1A0-17-10-00 * D0035-900 *
* DP1A0-18-01-00 * H0070-602 *
* DP1A0-18-02-00 * C0101-602 *
* DP1A0-18-03-00 * C0102-602 *
* DP1A0-18-04-00 * C0103-602 *
* DP1A0-18-05-00 * C0104-602 *
* DP1A0-18-06-00 * C0105-602 *
* DP1A0-18-07-00 * C0106-602 *
* DP1A0V18-08-00 * A0003-603 *
* DP1A0V18-08-00 * A0003-603 *
* DP1A0V18-09-00 * A0004-601 *
* DP1A0V18-10-00 * A0005-603 *
* DP1A0-19-01-00 * H0071-602 *
* DP1A0-19-02-00 * K0061-603 *
* DP1A0-19-03-00 * K0062-603 *
* DP1A0-19-04-00 * M0028-603 *
* DP1A0-19-05-00 * M0029-603 *
* DP1A0-19-06-00 * R0033-602 *
* DP1A0-19-07-00 * R0034-602 *
* DP1A0-19-08-00 * R0035-602 *
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* TLM CHAN * MEAS NO *
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* DP1A0-19-09-00 * K0151-601 *
* DP1A0-19-10-00 * K0152-602 *
* DP1A0-20-01-00 * H0040-603 *
* DP1A0-20-02-00 * H0001-602 *
* DP1A0-20-03-00 * H0001-003 *
* DP1A0V20-04-00 * H0001-004 *
* DP1A0V20-05-00 * H0002-002 *
* DP1A0V20-06-00 * H0002-003 *
* DP1A0V20-07-00 * H0002-004 *
* DP1A0-20-08-00 * H0044-603 *
* DP1A0-20-09-00 * H0045-603 *
* DP1A0-20-10-00 * H0046-603 *
* DP1A0-21-01-00 * H0041-603 *
* DP1A0-21-02-00 * H0035-603 *
* DP1A0-21-03-00 * H0036-603 *
* DP1A0-21-04-00 * C0062-603 *
* DP1A0-21-05-00 * C0063-603 *
* DP1A0-21-06-00 * C0067-603 *
* DP1A0-21-07-00 * D0001-900 *
* DP1A0-21-08-00 * D0003-900 *
* DP1A0-21-09-00 * C0108-601 *
* DP1A0-21-10-00 * C0109-602 *
* DP1A0-22-01-00 * H0042-603 *
* DP1A0-22-02-00 * M0003-601 *
* DP1A0-22-03-00 * BLANK *
* DP1A0-22-04-00 * M0002-602 *
* DP1A0-22-05-00 * M0007-603 *
* DP1A0-22-06-00 * M0024-603 *
* DP1A0-22-07-00 * M0025-603 *
* DP1A0-22-08-00 * M0026-603 *
* DP1A0-22-09-00 * M0027-603 *
* DP1A0-22-10-00 * C0057-900 *
* DP1A0-23K00-00 * M0060-603 *
* DP1A0-24K00-00 * H0060-603 *
* DP1A0-25K00-00 * H0060-603 *
* DP1A0-26K00-00 * H0060-603 *
* DP1A0V27-00-00 * G0001-004 *
* DP1A0-28-01-00 * M0069-602 *
* DP1A0-28-02-00 * BLANK *
* DP1A0-28-03-00 * BLANK *
* DP1A0-28-04-00 * BLANK *
* DP1A0-28-05-00 * BLANK *
* DP1A0-28-06-00 * BLANK *
* DP1A0-28-07-00 * BLANK *
* DP1A0-28-08-00 * BLANK *
* DP1A0-28-09-00 * BLANK *
* DP1A0-28-10-00 * M0070-602 *
* DP1A0-29-00-00 * K0279-602 *
* DP1A0-29-01-00 * K0282-602 *
* DP1A0-29-02-00 * K0283-602 *
* DP1A0-29-03-00 * K0284-602 *
* DP1A0-30-01-00 * K0284-602 *
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* TLM CHAN * MEAS NO *
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* DP1B3-29-10-00 * K0281-602 *
* DP1R3-30-10-00 * K0285-602 *
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MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
AU007-012	3476	E	GP1A0-11-00-00	ACCEL.LONGT.	D16014	01	+2 GEES
A0053-011	3533	E	GP1B0-16-00-00	ACCELERATION, PITCH	D16014	02	+-.5 GEES
A0054-011	3550	E	GP1A0-23-00-00	ACCELERATION, YAW	D16014	03	+-.5 GEES
XC0001-001	3272	E	GP1B0-03-01-00	TEMP LOX PUMP BRG. 1	D16018	01	-20/+200 DEG C
XC0001-002	3273	E	GP1B0-03-02-00	TEMP LOX PUMP BRG. 1	D16018	02	-20/+200 DEG C
XC0001-003	3274	E	GP1B0-03-03-00	TEMP LOX PUMP BRG. 1	D16018	03	-20/+200 DEG C
XC0001-004	3275	E	GP1B0-03-04-00	TEMP LOX PUMP BRG. 1	D16018	04	-20/+200 DEG C
XC0001-005	3276	E	GP1B0-03-05-00	TEMP LOX PUMP BRG. 1	D16018	05	-20/+200 DEG C
XC0001-006	3277	E	GP1B0-03-06-00	TEMP LOX PUMP BRG. 1	D16018	06	-20/+200 DEG C
XC0001-007	3300	E	GP1B0-03-07-00	TEMP LOX PUMP BRG. 1	D16018	07	-20/+200 DEG C
XC0001-008	3301	E	GP1B0-03-08-00	TEMP LOX PUMP BRG. 1	D16018	08	-20/+200 DEG C
C0009-001	3464	E	GP1B0-10-01-00	TEMP GAS GEN CHAMBER	D16019	01	0/1000 DEG C
C0009-002	3465	E	GP1B0-10-02-00	TEMP GAS GEN CHAMBER	D16019	02	0/1000 DEG C
C0009-003	3466	E	GP1B0-10-03-00	TEMP GAS GEN CHAMBER	D16019	03	0/1000 DEG C
C0009-004	3467	E	GP1B0-10-04-00	TEMP GAS GEN CHAMBER	D16019	04	0/1000 DEG C
C0009-005	3470	E	GP1B0-10-05-00	TEMP GAS GEN CHAMBER	D16019	05	0/1000 DEG C
C0009-006	3471	E	GP1B0-10-06-00	TEMP GAS GEN CHAMBER	D16019	06	0/1000 DEG C
C0009-007	3472	E	GP1B0-10-07-00	TEMP GAS GEN CHAMBER	D16019	07	0/1000 DEG C
C0009-008	3473	E	GP1B0-10-08-00	TEMP GAS GEN CHAMBER	D16019	08	0/1000 DEG C
C0010-006	3253	E	GP1A0-02-07-00	TEMP BASE TAIL	D16024	06	0/1500 DEG C

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MEASUREMENT NUMBER	DISPLAY NUMBER	P C	TELEMETRY CHANNEL	DESCRIPTION	MEASUREMENT NUMBER	TR NO	RANGE/REMARKS
XC0054-001	3316	E	GP180-04-01-00	TEMP. LOX PUMP INLET	D16020	01	-185/-168 DEG C
XC0054-002	3317	E	GP180-04-02-00	TEMP. LOX PUMP INLET	D16020	02	-185/-168 DEG C
XC0054-003	3320	E	GP180-04-03-00	TEMP. LOX PUMP INLET	D16020	03	-185/-168 DEG C
XC0054-004	3321	E	GP180-04-04-00	TEMP. LOX PUMP INLET	D16020	04	-185/-168 DEG C
XC0054-005	3322	E	GP180-04-05-00	TEMP. LOX PUMP INLET	D16020	05	-185/-168 DEG C
XC0054-006	3323	E	GP180-04-06-00	TEMP. LOX PUMP INLET	D16020	06	-185/-168 DEG C
XC0054-007	3324	E	GP180-04-07-00	TEMP. LOX PUMP INLET	D16020	07	-185/-168 DEG C
XC0054-008	3325	E	GP180-04-08-00	TEMP. LOX PUMP INLET	D16020	08	-185/-168 DEG C
C0059-001	3302	E	GP180-03-09-00	TEMP. HYDRAULIC OIL	D16022	01	-20/+135 DEG C
C0059-002	3303	E	GP180-03-10-00	TEMP. HYDRAULIC OIL	D16022	02	-20/+135 DEG C
C0059-003	3326	E	GP180-04-09-00	TEMP. HYDRAULIC OIL	D16022	03	-20/+135 DEG C
XC0059-004	3327	E	GP180-04-10-00	TEMP. HYDRAULIC OIL	D16022	04	-20/+135 DEG C
C0061-001	3245	E	GP1A0-02-01-00	TEMP. ENG. COMP.	D16017	05	-100/+900 DEG C
C0061-002	3246	E	GP1A0-02-02-00	TEMP. ENG. COMP.	D16017	06	-100/+900 DEG C
C0061-003	3247	E	GP1A0-02-03-00	TEMP. ENG. COMP.	D16017	07	-100/+900 DEG C
C0061-004	3250	E	GP1A0-02-04-00	TEMP. ENG. COMP.	D16017	08	-100/+900 DEG C
XC0089-001	3342	E	GP180-05-01-00	TEMP. GEAR CASE LUBRICANT	D16021	01	0/150 DEG C
XC0089-002	3343	E	GP180-05-02-00	TEMP. GEAR CASE LUBRICANT	D16021	02	0/150 DEG C
XC0089-003	3344	E	GP180-05-03-00	TEMP. GEAR CASE LUBRICANT	D16021	03	0/150 DEG C
XC0089-004	3345	E	GP180-05-04-00	TEMP. GEAR CASE LUBRICANT	D16021	04	0/150 DEG C
XC0089-005	3346	E	GP180-05-05-00	TEMP. GEAR CASE LUBRICANT	D16021	05	0/150 DEG C
XC0089-006	3347	E	GP180-05-06-00	TEMP. GEAR CASE LUBRICANT	D16021	06	0/150 DEG C

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MEASUREMENT NUMBER	DISPLAY NUMBER	P REQUEST	TELEMETRY C CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
XC0089-007	3350	E	GP180-05-07-00	TEMP GEAR CASE LUBRICANT	D16021	07	0/150 DEG C
XC0089-008	3351	E	GP180-05-08-00	TEMP GEAR CASE LUBRICANT	D16021	08	0/150 DEG C
XC0114-1/8			HARDWIRE	TEMP, FIRE DETECTION			DALO
XC0115-1/8			HARDWIRE	TEMP, FIRE DETECTION			DALO
XC0116-1/8			HARDWIRE	TEMP, FIRE DETECTION			DALO
XC0117-1/8			HARDWIRE	TEMP, FIRE DETECTION			DALO
XC0179-0F1	3352	E	GP180-05-09-00	TEMP FUEL	D16023	05	0/40 DEG C
XC0179-0F2	3446	E	GP180-08-09-00	TEMP FUEL	D16023	06	0/40 DEG C
XC0179-0F3	3353	E	GP180-05-10-00	TEMP FUEL	D16023	07	0/40 DEG C
XC0179-0F4	3447	E	GP180-08-10-00	TEMP FUEL	D16023	08	0/40 DEG C
C0180-011	3251	E	GP1A0-02-05-00	TEMP, S-1B/S-1VB INTERSTAGE AMBIENT	D16029	01	-218/+10 DEG C
C0183-011	3252	E	GP1A0-02-06-00	TEMP, S-1B/S-1VB INTERSTAGE AMBIENT	D16029	02	-218/+10 DEG C
XC0234-009	3221	E	GP1A0-01-01-00	TEMP GOX CONT VALVE	D16029	03	-130/+300 DEG C
WC0528-012			HARDWIRE	TEMP, D20 BATTERY			20/30 DEG CENT
WC0529-012			HARDWIRE	TEMP, D10 BATTERY			20/30 DEG CENT
C0540-001	3360	E	GP1A0-06-05-00	LOX SEAL DRAIN LINE TEMP NO.1 ENG NO.1	D16003	01	-185/-12 DEG C
C0540-002	3361	E	GP1A0-06-06-00	LOX SEAL DRAIN LINE TEMP NO.1 ENG NO.2	D16003	04	-185/-12 DEG C
C0540-003	3222	E	GP1A0-01-02-00	LOX SEAL DRAIN LINE TEMP NO.1 ENG NO.3	D16004	01	-185/-12 DEG C
C0540-004	3223	E	GP1A0-01-03-00	LOX SEAL DRAIN LINE TEMP NO.1 ENG NO.4	D16004	04	-185/-12 DEG C
C0540-005	3365	E	GP1A0-06-10-00	LOX SEAL DRAIN LINE TEMP NO.1 ENG NO.5	D16005	01	-185/-12 DEG C
C0540-006	3435	E	GP1A0-08-10-00	LOX SEAL DRAIN LINE TEMP NO.1 ENG NO.6	D16005	04	-185/-12 DEG C
C0540-007	3232	E	GP1A0-01-10-00	LOX SEAL DRAIN LINE TEMP NO.1 ENG NO.7	D16006	01	-185/-12 DEG C

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MEASUREMENT NUMBER	DISPLAY NUMBER	P REQUEST	TELEMETRY C CHANNEL	MEASUREMENT DESCRIPTION	TR NUMBER	RANGE/REMARKS
C0611-003	3231	E	GP1A0-01-09-00	TEMP HEAT SHIELD T. CAL	016025	04 0/45 W/CM2
D0001-001	3543	E	GP1B0-20-00-00	PRESS. COMBUSTION CHAMBER	016007	01 0/800 PSIA
D0001-002	3545	E	GP1B0-21-00-00	PRESS. COMBUSTION CHAMBER	016007	02 0/800 PSIA
	17163	E	GF1-06		016001	02
D0001-003	3547	E	GP1B0-22-00-00	PRESS. COMBUSTION CHAMBER	016007	03 0/800 PSIA
D0001-004	3551	E	GP1B0-23-00-00	PRESS. COMBUSTION CHAMBER	016007	04 0/800 PSIA
D0001-005	3553	E	GP1B0-24-00-00	PRESS. COMBUSTION CHAMBER	016007	05 0/800 PSIA
D0001-006	3555	E	GP1B0-25-00-00	PRESS. COMBUSTION CHAMBER	016007	06 0/800 PSIA
	17177	E	GF1-18		016001	03
D0001-007	3557	E	GP1B0-26-00-00	PRESS. COMBUSTION CHAMBER	016007	07 0/800 PSIA
D0001-008	3561	E	GP1B0-27-00-00	PRESS. COMBUSTION CHAMBER	016007	08 0/800 PSIA
X0002-0F3	3260	E	GP1A0V03-01-00	PRESS. GAS IN FUEL TANK	016013	06 0/45 PSIA SWITCH P.T.F.
X0003-00C	3261	E	GP1A0V03-02-00	PRESS. GAS IN LOX TANK	016013	07 0/100 PSIA SWITCH P.T.F.
D0012-001	3262	E	GP1A0-03-03-00	PRESS. FUEL PUMP INLET	016008	01 0/100 PSIA
D0012-002	3263	E	GP1A0-03-04-00	PRESS. FUEL PUMP INLET	016008	02 0/100 PSIA
D0012-003	3264	E	GP1A0-03-05-00	PRESS. FUEL PUMP INLET	016008	03 0/100 PSIA
D0012-004	3265	E	GP1A0-03-06-00	PRESS. FUEL PUMP INLET	016008	04 0/100 PSIA
D0013-001	3266	E	GP1A0-03-07-00	PRESS LOX PUMP INLET	016008	05 0/150 PSIA
D0013-002	3267	E	GP1A0-03-08-00	PRESS LOX PUMP INLET	016008	06 0/150 PSIA
D0013-003	3270	E	GP1A0-03-09-00	PRESS LOX PUMP INLET	016008	07 0/150 PSIA
D0013-004	3271	E	GP1A0-03-10-00	PRESS LOX PUMP INLET	016008	08 0/150 PSIA

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MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	IR NO	RANGE/REMARKS
D0014-001*	3304	E	GP1A0-04-01-00	PRESS. TURBINE INLET	D16009*	01	0/800 PSIA
D0014-002*	3305	E	GP1A0-04-02-00	PRESS. TURBINE INLET	D16009*	02	0/800 PSIA
D0014-003*	3306	E	GP1A0-04-03-00	PRESS. TURBINE INLET	D16009*	03	0/800 PSIA
D0014-004*	3307	E	GP1A0-04-04-00	PRESS. TURBINE INLET	D16009*	04	0/800 PSIA
D0014-005*	3310	E	GP1A0-04-05-00	PRESS. TURBINE INLET	D16009*	05	0/800 PSIA
D0014-006*	3311	E	GP1A0-04-06-00	PRESS. TURBINE INLET	D16009*	06	0/800 PSIA
D0014-007*	3312	E	GP1A0-04-07-00	PRESS. TURBINE INLET	D16009*	07	0/800 PSIA
D0014-008*	3313	E	GP1A0-04-08-00	PRESS. TURBINE INLET	D16009*	08	0/800 PSIA
D0020-001*	3366	E	GP1B0-06-01-00	PRESS. GEAR CASE LUBRICANT LOW	D16010*	01	0/200 PSIA
D0020-002*	3367	E	GP1B0-06-02-00	PRESS. GEAR CASE LUBRICANT LOW	D16010*	02	0/200 PSIA
D0020-003*	3370	E	GP1B0-06-03-00	PRESS. GEAR CASE LUBRICANT LOW	D16010*	03	0/200 PSIA
D0020-004*	3371	E	GP1B0-06-04-00	PRESS. GEAR CASE LUBRICANT LOW	D16010*	04	0/200 PSIA
D0020-005*	3372	E	GP1B0-06-05-00	PRESS. GEAR CASE LUBRICANT LOW	D16010*	05	0/200 PSIA
D0020-006*	3373	E	GP1B0-06-06-00	PRESS. GEAR CASE LUBRICANT LOW	D16010*	06	0/200 PSIA
D0020-007*	3374	E	GP1B0-06-07-00	PRESS. GEAR CASE LUBRICANT LOW	D16010*	07	0/200 PSIA
D0020-008*	3375	E	GP1B0-06-08-00	PRESS. GEAR CASE LUBRICANT LOW	D16010*	08	0/200 PSIA
D0025-007*	3314	E	GP1A0-04-09-00	PRESS. BASE TAIL	D16025*	05	0/20 PSIA
VXD0029-001*	3330	E	GP1A0-05-01-00	PRESS. HYDRAULIC SOURCE NO. 1	D16022*	05	0/4000 PSIG
VXD0029-002*	3331	E	GP1A0-05-02-00	PRESS. HYDRAULIC SOURCE NO. 2	D16022*	06	0/4000 PSIG
VXD0029-003*	3332	E	GP1A0-05-03-00	PRESS. HYDRAULIC SOURCE NO. 3	D16022*	07	0/4000 PSIG
VXC0029-004*	3333	E	GP1A0-05-04-00	PRESS. HYDRAULIC SOURCE NO. 4	D16022*	08	0/4000 PSIG
D0034-001*	3451	E	GP1B0-09-01-00	PRESS. 6-6. FUEL INJ	D16011*	01	0/900 PSIA

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MEASUREMENT NUMBER	DISPLAY	P	TELEMETRY C	CHANNEL	REQUEST	NUMBER	DESCRIPTION	MEASUREMENT	TR	RANGE/REMARKS
D0034-002	3452	E		GP1B0-09-02-00			PRESS. G.G. FUEL INJ	D16011	02	0/900 PSIA
D0034-003	3453	E		GP1B0-09-03-00			PRESS. G.G. FUEL INJ	D16011	03	0/900 PSIA
D0034-004	3454	E		GP1B0-09-04-00			PRESS. G.G. FUEL INJ	D16011	04	0/900 PSIA
D0034-005	3455	E		GP1B0-09-05-00			PRESS. G.G. FUEL INJ	D16011	05	0/900 PSIA
D0034-006	3456	E		GP1B0-09-06-00			PRESS. G.G. FUEL INJ	D16011	06	0/900 PSIA
D0034-007	3457	E		GP1B0-09-07-00			PRESS. G.G. FUEL INJ	D16011	07	0/900 PSIA
D0034-008	3460	E		GP1B0-09-08-00			PRESS. G.G. FUEL INJ	D16011	08	0/900 PSIA
XD0035-001	3412	E		GP1B0-07-01-00			PRESS. G.G. LOX INJ.	D16012	01	0/900 PSIA
XD0035-002	3413	E		GP1B0-07-02-00			PRESS. G.G. LOX INJ.	D16012	02	0/900 PSIA
XD0035-003	3414	E		GP1B0-07-03-00			PRESS. G.G. LOX INJ.	D16012	03	0/900 PSIA
XD0035-004	3415	E		GP1B0-07-04-00			PRESS. G.G. LOX INJ.	D16012	04	0/900 PSIA
XD0035-005	3416	E		GP1B0-07-05-00			PRESS. G.G. LOX INJ.	D16012	05	0/900 PSIA
XD0035-006	3417	E		GP1B0-07-06-00			PRESS. G.G. LOX INJ.	D16012	06	0/900 PSIA
XD0035-007	3420	E		GP1B0-07-07-00			PRESS. G.G. LOX INJ.	D16012	07	0/900 PSIA
XD0035-008	3421	E		GP1B0-07-08-00			PRESS. G.G. LOX INJ.	D16012	08	0/900 PSIA
XD0040-009	3461	E		GP1B0-09-09-00			PRESS. CONTROL EQUIPMENT SUPPLY	D16013	01	0/3500 PSIA
XD0041-009	3462	E		GP1B0-09-10-00			PRESS. CONTROL EQUIPMENT SUPPLY	D16013	02	0/100 PSIA
XD0042-009	3411	E		GP1A0-07-10-00			PRESS. CONTROL EQUIPMENT SUPPLY	D16013	03	0/100 PSIA
D0053-002	17162	E		GF1-05			PRESS. CONTROL EQUIPMENT SUPPLY	D16001	04	0/150 PSIA
D0053-006	17164	E		GF1-07			PRESS. CONTROL EQUIPMENT SUPPLY	D16001	05	0/150 PSIA
D0119-009	3334	E		GP1A0-05-05-00			PRESS. GOX CONTROL VALVE (UPSTREAM)	D16013	05	0/650 PSIA
D0122-003	3335	E		GP1A0-05-06-00			DELTA P ACROSS HEAT SHIELD	D16025	06	+5 PSID

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MEASUREMENT NUMBER	DISPLAY NUMBER	P REQUEST	TELEMETRY C CHANNEL	DESCRIPTION	PEASUREMENT DESCRIPTION	TR NUMBER	RANGE/REMARKS
X00139-011*	3337	E	GP1A0-05-08-00		GAS PRESSURE H.P. SPHERES	016013* 04	0/3500 PSIA
D0600-008*	3341	E	GP1A0-05-10-00		PRESS BASE TAIL	016025* 07	0/20 PSIA
E0167-010*	3552	E	GP1A0-24-00-00		VIB.CEN.TANK PITCH	016015* 01	+-.5 GEES
E0168-010*	3554	E	GP1A0-25-00-00		VIB.CEN.TANK YAW	016015* 02	+-.5 GEES
E0251-009*	3556	E	GP1A0-26-00-00		VIB. THRUST RING PITCH	016015* 03	+-.5 GEES
E0252-009*	3560	E	GP1A0-27-00-00		VIB. THRUST RING YAW	016015* 04	+-.5 GEES
E0513-002*	17176	E	GF1-17		VIB. ENG THRUST BLOCK LONGITUDINAL	016001* 06	-1/+5 GEES
E0513-006*	17175	E	GF1-16		VIB. ENG THRUST BLOCK LONGITUDINAL	016001* 07	-1/+5 GEES
VK0001-012*	3541	B	GP1B0-19-00-00		SW. SEL. COUNT IND.	016029* 04	0/5 VDC
K0002-012*	3355	B	GP1A0-06-02-00		FIRST MOTION	016029* 08	ON/OFF
K0003-012*	3355	B	GP1A0-06-02-00		CUTOFF SIGNAL, OUTBOARD	016029* 08	ON/OFF
VK0015-002*	3520	B	GP1B0-13R05-08		LOX LEVEL CUTOFF IND. NO. 2	016030* 58	ON/OFF
VK0016-004*	3520	B	GP1B0-13R05-09		LOX LEVEL CUTOFF IND. NO. 3	016030* 59	ON/OFF
VK0017-0F2*	3515	B	GP1B0-13R02-01		FUEL LEVEL CUTOFF IND. NO. 1	016030* 45	ON/OFF
VK0018-0F4*	3515	B	GP1B0-13R02-02		FUEL LEVEL CUTOFF IND. NO. 2	016030* 46	ON/OFF
K0037-011*	3514	B	GP1B0-13R01-09		RETRO ROCKET IGN. SIGNAL (EBW)	016030* 77	ON/OFF
K0053-012*	3514	B	GP1B0-13R01-10		SEPARATION PRESTART S-1B TO S1VB SIG.	016030* 97	ON/OFF
K0060-012*	3523	B	GP1B0V13R08-03		LOX EMERG PRESS SW	016030* 76	ON/OFF
							DALLOCH P.T.F.

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MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
K0065-013	3527	B	GP1B0-14-00-00	CUTOFF AND DESTRUCT IND. CDR. NO. 1	D16029	05	ON/OFF
K0066-013	3531	B	GP1B0-15-00-00	CUTOFF AND DESTRUCT IND. CDR. NO. 2	D16029	06	ON/OFF
K0067-012	3555	B	GP1A0-06-02-00	CUTOFF SIG. INBOARD	D16029	08	ON/OFF
K0072-009	3364	B	GP1A0-06-09-00	POSITION GOX FLOW CONTROL VALVE	D16029	07	0/100 PCT
VK0081-0F2	3515	B	GP1B0-13R02-03	FUEL DEP. SENSOR NO. 1	D16030	47	ON/OFF
VK0082-0F4	3515	B	GP1A0-09-00-00	FUEL DEP. SENSOR NO. 2	D16030	48	ON/OFF
VK0083-009	3515	B	GP1B0V13R02-05	FUEL PREVALVE NO. 1 CLOSED INDICATION	D16030	49	ON/OFF
VK0084-009	3515	B	GP1B0V13R02-06	FUEL PREVALVE NO. 2 CLOSED INDICATION	D16030	50	ON/OFF
VK0085-009	3515	B	GP1B0V13R02-07	FUEL PREVALVE NO. 3 CLOSED INDICATION	D16030	51	ON/OFF
VK0086-009	3515	B	GP1B0V13R02-08	FUEL PREVALVE NO. 4 CLOSED INDICATION	D16030	52	ON/OFF
VK0087-009	3515	B	GP1B0V13R02-09	FUEL PREVALVE NO. 5 CLOSED INDICATION	D16030	53	ON/OFF
VK0088-009	3515	B	GP1B0V13R02-10	FUEL PREVALVE NO. 6 CLOSED INDICATION	D16030	54	ON/OFF
VK0089-009	3516	B	GP1B0V13R03-01	FUEL PREVALVE NO. 7 CLOSED INDICATION	D16030	55	ON/OFF
VK0090-009	3516	B	GP1B0V13R03-02	FUEL PREVALVE NO. 8 CLOSED INDICATION	D16030	56	ON/OFF
VK0091-009	3516	B	GP1B0V13R03-03	LOX PREVALVE NO. 1 CLOSED INDICATION	D16030	60	ON/OFF
VK0092-009	3516	B	GP1B0V13R03-04	LOX PREVALVE NO. 2 CLOSED INDICATION	D16030	61	ON/OFF

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MEASUREMENT NUMBER	DISPLAY NUMBER	P REQUEST	C CHANNEL	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VK0093-009	3516	B		GP1B0V13R03-05	LOX PREVALVE NO. 3 CLOSED INDICATION	D16030	62	ON/OFF DALO
VK0094-009	3516	B		GP1B0V13R03-06	LOX PREVALVE NO. 4 CLOSED INDICATION	D16030	63	ON/OFF DALO
VK0095-009	3516	B		GP1B0V13R03-07	LOX PREVALVE NO. 5 CLOSED INDICATION	D16030	64	ON/OFF DALO
VK0096-009	3516	B		GP1B0V13R03-08	LOX PREVALVE NO. 6 CLOSED INDICATION	D16030	65	ON/OFF DALO
VK0097-009	3516	B		GP1B0V13R03-09	LOX PREVALVE NO. 7 CLOSED INDICATION	D16030	66	ON/OFF DALO
VK0098-009	3516	B		GP1B0V13R03-10	LOX PREVALVE NO. 8 CLOSED INDICATION	D16030	67	ON/OFF DALO
VK0099-001	3517	B		GP1B0-13R04-01	CUTOFF SUPV. ENG. NO. 1 (+1D11)	D16030	29	ON/OFF
VK0099-002	3517	B		GP1B0-13R04-03	CUTOFF SUPV. ENG. NO. 2 (+1D11)	D16030	31	ON/OFF
VK0099-003	3517	B		GP1B0-13R04-05	CUTOFF SUPV. ENG. NO. 3 (+1D11)	D16030	33	ON/OFF
VK0099-004	3517	B		GP1B0-13R04-07	CUTOFF SUPV. ENG. NO. 4 (+1D11)	D16030	35	ON/OFF
VK0099-005	3517	B		GP1B0-13R04-09	CUTOFF SUPV. ENG. NO. 5 (+1D11)	D16030	37	ON/OFF
VK0099-006	3520	B		GP1B0-13R05-01	CUTOFF SUPV. ENG. NO. 6 (+1D11)	D16030	39	ON/OFF
VK0099-007	3520	B		GP1B0-13R05-03	CUTOFF SUPV. ENG. NO. 7 (+1D11)	D16030	41	ON/OFF
VK0099-008	3520	B		GP1B0-13R05-05	CUTOFF SUPV. ENG. NO. 8 (+1D11)	D16030	43	ON/OFF
VK0100-001	3517	B		GP1B0-13R04-02	CUTOFF SUPV. ENG. NO. 1 (+1D21)	D16030	30	ON/OFF
VK0100-002	3517	B		GP1B0-13R04-04	CUTOFF SUPV. ENG. NO. 2 (+1D21)	D16030	32	ON/OFF
VK0100-003	3517	B		GP1B0-13R04-06	CUTOFF SUPV. ENG. NO. 3 (+1D21)	D16030	34	ON/OFF
VK0100-004	3517	B		GP1B0-13R04-08	CUTOFF SUPV. ENG. NO. 4 (+1D21)	D16030	36	ON/OFF
VK0100-005	3517	B		GP1B0-13R04-10	CUTOFF SUPV. ENG. NO. 5 (+1D21)	D16030	38	ON/OFF

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MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VK0100-006	3520	B	GP1B0-13R05-02	CUTOFF SUPV. ENG. NO. 6 (+1D21)	D16030	40	ON/OFF
VK0100-007	3520	B	GP1B0-13R05-04	CUTOFF SUPV. ENG. NO. 7 (+1D21)	D16030	42	ON/OFF
VK0100-008	3520	B	GP1B0-13R05-06	CUTOFF SUPV. ENG. NO. 8 (+1D21)	D16030	44	ON/OFF
VK0115-012	3523	B	GP1B0-13R08-07	SWITCH SELECTOR REGISTER TEST	D16030	90	ON/OFF
VK0120-011	3524	B	GP1B0-13R09-04	LOX RELIEF VALVE NO. 1 CLOSED IND.	D16030	57	ON/OFF
VK0121-011	3524	B	GP1B0V13R09-05	LOX VENT VALVE NO. 1 CLOSED IND.	D16030	68	ON/OFF DALO
VK0122-011	3524	B	GP1B0V13R09-06	LOX VENT VALVE NO. 1 OPEN IND.	D16030	72	ON/OFF DALO
VK0124-400	3524	B	GP1B0V13R09-08	EBW PULSE SENSOR INDICATION, RETO 1	D16030	78	ON/OFF DALO
VK0125-400	3524	B	GP1B0V13R09-09	EBW PULSE SENSOR INDICATION, RETO 1	D16030	79	ON/OFF DALO
VK0126-400	3524	B	GP1B0V13R09-10	EBW PULSE SENSOR INDICATION, RETO 2	D16030	80	ON/OFF DALO
VK0127-400	3525	B	GP1B0V13R10-01	EBW PULSE SENSOR INDICATION, RETO 2	D16030	81	ON/OFF DALO
VK0128-400	3525	B	GP1B0V13R10-02	EBW PULSE SENSOR INDICATION, RETO 3	D16030	82	ON/OFF DALO
VK0129-400	3525	B	GP1B0V13R10-03	EBW PULSE SENSOR INDICATION, RETO 3	D16030	83	ON/OFF DALO
VK0130-400	3525	B	GP1B0V13R10-04	EBW PULSE SENSOR INDICATION, RETO 4	D16030	84	ON/OFF DALO
VK0131-400	3525	B	GP1B0V13R10-05	EBW PULSE SENSOR INDICATION, RETO 4	D16030	85	ON/OFF DALO
VK0132-400	3525	B	GP1B0V13R10-06	EBW PULSE SENSOR IND. SEPARATE 1	D16030	86	ON/OFF DALO
VK0133-400	3525	B	GP1B0V13R10-07	EBW PULSE SENSOR IND. SEPARATE 2	D16030	87	ON/OFF DALO

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MEASUREMENT NUMBER	DISPLAY NUMBER	P REQUEST	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VK0134-011*	3525	B	GP1B0V13R10-09	EW PULSE INDICATION DESTRUCT	D16030*	88	ON/OFF
VK0135-011*	3525	B	GP1B0V13R10-09	EW PULSE INDICATION DESTRUCT	D16030*	89	ON/OFF
VK0138-001*	3522	B	GP1B0-13R07-01	ENG 1 THRUST PRESS SW 1 THRUST OK	D16030*	01	ON/OFF
VK0139-001*	3522	B	GP1B0-13R07-09	ENG 1 THRUST PRESS SW 2 THRUST OK	D16030*	02	ON/OFF
VK0140-002*	3522	B	GP1B0-13R07-02	ENG 2 THRUST PRESS SW 1 THRUST OK	D16030*	04	ON/OFF
VK0141-002*	3522	B	GP1B0-13R07-10	ENG 2 THRUST PRESS SW 2 THRUST OK	D16030*	05	ON/OFF
VK0142-003*	3522	B	GP1B0-13R07-03	ENG 3 THRUST PRESS SW 1 THRUST OK	D16030*	07	ON/OFF
VK0143-003*	3521	B	GP1B0-13R06-01	ENG 3 THRUST PRESS SW 2 THRUST OK	D16030*	08	ON/OFF
VK0144-004*	3522	B	GP1B0-13R07-04	ENG 4 THRUST PRESS SW 1 THRUST OK	D16030*	10	ON/OFF
VK0145-004*	3521	B	GP1B0-13R06-02	ENG 4 THRUST PRESS SW 2 THRUST OK	D16030*	11	ON/OFF
VK0146-005*	3522	B	GP1B0-13R07-05	ENG 5 THRUST PRESS SW 1 THRUST OK	D16030*	13	ON/OFF
VK0147-005*	3521	B	GP1B0-13R06-03	ENG 5 THRUST PRESS SW 2 THRUST OK	D16030*	14	ON/OFF
VK0148-006*	3522	B	GP1B0-13R07-06	ENG 6 THRUST PRESS SW 1 THRUST OK	D16030*	16	ON/OFF
VK0149-006*	3521	B	GP1B0-13R06-04	ENG 6 THRUST PRESS SW 2 THRUST OK	D16030*	17	ON/OFF
VK0150-007*	3522	B	GP1B0-13R07-07	ENG 7 THRUST PRESS SW 1 THRUST OK	D16030*	19	ON/OFF
VK0151-007*	3521	B	GP1B0-13R06-05	ENG 7 THRUST PRESS SW 2 THRUST OK	D16030*	20	ON/OFF
VK0152-008*	3522	B	GP1B0-13R07-08	ENG 8 THRUST PRESS SW 1 THRUST OK	D16030*	22	ON/OFF
VK0153-008*	3520	B	GP1B0-13R05-10	ENG 8 THRUST PRESS SW 2 THRUST OK	D16030*	23	ON/OFF
VK0154-011*	3523	B	GP1B0V13R08-01	LOX VENT VALVE NO. 2 CLOSED	D16030*	69	ON/OFF
VK0155-011*	3523	B	GP1B0V13R08-02	LOX VENT VALVE NO. 2 OPEN	D16030*	73	ON/OFF

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MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VK0156-011*	3524	B	GP180V13R09-03	LOX VENT VALVE NO. 3 CLOSED	D16030*	70	ON/OFF DALO
VK0157-011*	3524	B	GP180V13R09-07	LOX VENT VALVE NO. 3 OPEN	D16030*	74	ON/OFF DALO
VK0158-011*	3523	B	GP180V13R08-04	LOX VENT VALVE NO. 4 CLOSED	D16030*	71	ON/OFF DALO
VK0159-011*	3523	B	GP180V13R08-05	LOX VENT VALVE NO. 4 OPEN	D16030*	75	ON/OFF DALO
VK0171-001*	3514	B	GP180-13R01-01	ENG. 1 THRUST PRESS. SW 3 THRUST OK	D16030*	03	ON/OFF
VK0172-002*	3514	B	GP180-13R01-02	ENG. 2 THRUST PRESS. SW 3 THRUST OK	D16030*	06	ON/OFF
VK0173-003*	3514	B	GP180-13R01-03	ENG. 3 THRUST PRESS. SW 3 THRUST OK	D16030*	09	ON/OFF
VK0174-004*	3514	B	GP180-13R01-04	ENG. 4 THRUST PRESS. SW 3 THRUST OK	D16030*	12	ON/OFF
VK0175-005*	3514	B	GP180-13R01-05	ENG. 5 THRUST PRESS. SW 3 THRUST OK	D16030*	15	ON/OFF
VK0176-006*	3514	B	GP180-13R01-06	ENG. 6 THRUST PRESS SW 3 THRUST OK	D16030*	18	ON/OFF
VK0177-007*	3514	B	GP180-13R01-07	ENG. 7 THRUST PRESS SW 3 THRUST OK	D16030*	21	ON/OFF
VK0178-008*	3514	B	GP180-13R01-08	ENG. 8 THRUST PRESS SW 3 THRUST OK	D16030*	24	ON/OFF
VK0205-009*	3521	B	GP180-13R06-10	ENG 1 OR 2 OR 3 OR 4 PREVLV CO RY CONTROL	D16030*	26	ON/OFF
VK0206-009*	3521	B	GP180-13R06-07	ENG 5 OR 6 OR 7 OR 8 PREVLV CO RY CONTROL	D16030*	27	ON/OFF
VK0207-009*	3521	B	GP180-13R06-09	ENG 1 OR 2 OR 3 OR 4 +1D11 TOPS LOCK UP	D16030*	25	ON/OFF
VK0208-009*	3521	B	GP180-13R06-08	ENG 5 OR 6 OR 7 OR 8 +1D11 TOPS LOCK UP	D16030*	28	ON/OFF
VK0211-012*	3523	B	GP180-13R08-09	+ 1D11 IECC	D16030*	93	ON/OFF
VK0212-012*	3523	B	GP180-13R08-06	+ 1D21 IECC	D16030*	91	ON/OFF
VK0213-012*	3523	B	GP180-13R08-08	+ 1D11 OECC	D16030*	92	ON/OFF
VK0214-012*	3523	B	GP180-13R08-10	+ 1D21 OECC	D16030*	94	ON/OFF

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MEASUREMENT NUMBER	DISPLAY	P	TELEMETRY REQUEST	C	CHANNEL NUMBER	DESCRIPTION	PEASUREMENT	RECORD NUMBER	TR NO	RANGE/REMARKS
VK0215-012	3524	B	B	B	GP1B0-13R09-01	+ 1D11 RSCR0		D1G023	01	0/100 PCT
VK0216-012	3524	B	B	B	GP1B0-13R09-02	+ 1D21 RSCR0		D1G023	02	0/100 PCT
								D1G023	03	0/100 PCT
								D1G023	04	0/100 PCT
XL0008-001	3436	P	P	P	GP1B0-08-01-00	LEVEL HYDRAULIC OIL		D1G023	01	0/100 PCT
XL0008-002	3437	P	P	P	GP1B0-08-02-00	LEVEL HYDRAULIC OIL		D1G023	02	0/100 PCT
XL0008-003	3440	P	P	P	GP1B0-08-03-00	LEVEL HYDRAULIC OIL		D1G023	03	0/100 PCT
XL0008-004	3441	P	P	P	GP1B0-08-04-00	LEVEL HYDRAULIC OIL		D1G023	04	0/100 PCT
L0020-0F1	3542	B	B	B	GP1A0-20-00-00	FUEL LEVEL DISCRETE		D1G024	01	ON/OFF
L0020-0F3	3544	B	B	B	GP1A0-21-00-00	FUEL LEVEL DISCRETE		D1G024	02	ON/OFF
L0500-00C	3534	E	E	E	GP1A0-17-00-00	LOX LEVEL DISCRETE		D1G024	03	0/5 VDC
L0500-001	3536	E	E	E	GP1A0-18-00-00	LOX LEVEL DISCRETE		D1G024	04	0/5 VDC
L0500-003	3540	E	E	E	GP1A0-19-00-00	LOX LEVEL DISCRETE		D1G024	05	0/5 VDC
VM0001-009	3432	E	E	E	GP1A0-09-07-00	MEAS. VOLT. NO.1 (+1D81 INDICATION)		D1G026	01	0/5 VDC
VM0002-009	3433	E	E	E	GP1A0-08-08-00	MEAS. VOLT. NO.2 (+1D82 INDICATION)		D1G026	02	0/5 VDC
VM0009-012	3422	E	E	E	GP1B0-07-09-00	MEAS. VOLT. NO.3 (+1D89 INDICATION)		D1G026	03	0/5 VDC
M0016-012	3425	E	E	E	GP1A0-08-02-00	D21 BUS VOLTAGE		D1G026	04	24/32 VDC
M0017-012	3426	E	E	E	GP1A0-08-03-00	D11 BUS VOLTAGE		D1G026	05	24/32 VDC
XM0018-012	3427	E	E	E	GP1A0-08-04-00	D10 BATTERY CURRENT		D1G026	06	0/50 AMPS DC
XM0019-012	3430	E	E	E	GP1A0-08-05-00	D20 BATTERY CURRENT		D1G026	07	0/50 AMPS DC
VM0042-400	3400	E	E	E	GP1A0-07-01-00	EBW NO.1 VOLTAGE (RETRO NO.1)		D1G027	01	0/5 VDC
VM0043-400	3401	E	E	E	GP1A0-07-02-00	EBW NO.2 VOLTAGE (RETRO NO.1)		D1G027	02	0/5 VDC

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MEASUREMENT NUMBER	DISPLAY NUMBER	P REQUEST	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VM0044-400	3402	E	GP1A0-07-03-00	EBW NO.1 VOLTAGE (RETRO NO.2)	D16027	03	0/5 VDC
VM0045-400	3403	E	GP1A0-07-04-00	EBW NO.2 VOLTAGE (RETRO NO.2)	D16027	04	0/5 VDC
VM0046-400	3404	E	GP1A0-07-05-00	EBW NO.1 VOLTAGE (RETRO NO.3)	D16027	05	0/5 VDC
VM0047-400	3405	E	GP1A0-07-06-00	EBW NO.2 VOLTAGE (RETRO NO.3)	D16027	06	0/5 VDC
VM0048-400	3406	E	GP1A0-07-07-00	EBW NO.1 VOLTAGE (RETRO NO.4)	D16027	07	0/5 VDC
VM0049-400	3407	E	GP1A0-07-08-00	EBW NO.2 VOLTAGE (RETRO NO.4)	D16027	08	0/5 VDC
M0063-011	3356	E	GP1A0-06-03-00	DESTRUCT EBW VOLT 1	D16028	01	0/5 VDC
M0064-011	3357	E	GP1A0-06-04-00	DESTRUCT EBW VOLT 2	D16028	02	0/5 VDC
VM0068-400	3362	E	GP1A0-06-07-00	EBW VOLTAGE NO. 1 SEPARATION	D16028	03	0/5 VDC
VM0069-400	3363	E	GP1A0-06-08-00	EBW VOLTAGE NO. 2 SEPARATION	D16028	04	0/5 VDC
VM0505-013	3255	E	GP1A0-02-09-00	COMMAND RCVR NO. 1 LOW LEVEL FIELD	D16028	05	0/5 VDC
VM0508-013	3340	E	GP1A0-05-09-00	COMMAND RCVR NO. 2 LOW LEVEL FIELD	D16028	06	0/5 VDC
R0500-011	3237 17161	E E	GP1B0-01-05-00 GF1-04	ANGULAR VELOCITY PITCH	D16014 D16001	04 08	+ -10 DEG/SEC
R0501-011	3240 17157	E E	GP1B0-01-06-00 GF1-02	ANGULAR VELOCITY ROLL	D16014 D16001	05 09	+ -10 DEG/SEC
R0502-011	3241 17160	E E	GP1B0-01-07-00 GF1-03	ANGULAR VELOCITY YAW	D16014 D16001	06 10	+ -10 DEG/SEC
S0021-001	3336	E	GP1A0-05-07-00	STRAIN MOUNTING STUD	D16016	01	-2800/+500 UI/I
S0021-002	3410	E	GP1A0-07-09-00	STRAIN MOUNTING STUD	D16016	02	-2800/+500 UI/I
S0021-003	3431	E	GP1A0-08-06-00	STRAIN MOUNTING STUD	D16016	03	-2800/+500 UI/I
S0021-004	3434	E	GP1A0-08-09-00	STRAIN MOUNTING STUD	D16016	04	-2800/+500 UI/I

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MEASUREMENT NUMBER	DISPLAY	P	TELEMETRY REQUEST	C	CHANNEL NUMBER	DESCRIPTION	MEASUREMENT NUMBER	TR	RANGE/REMARKS
S0022-001	3377	E			GP1B0-06-10-00	STRAIN MOUNTING STUD	D16016	05	-2800/+500 UI/I
S0022-002	3442	E			GP1B0-08-05-00	STRAIN MOUNTING STUD	D16016	06	-2800/+500 UI/I
S0022-003	3445	E			GP1B0-08-08-00	STRAIN MOUNTING STUD	D16016	07	-2800/+500 UI/I
S0022-004	3475	E			GP1B0-10-10-00	STRAIN MOUNTING STUD	D16016	08	-2800/+500 UI/I
T0012-001	17165	E			GF1-08	TURBINE RPM	D16002	01	0/45 RPM
T0012-002	17166	E			GF1-09	TURBINE RPM	D16002	02	
T0012-003	17167	E			GF1-10	TURBINE RPM	D16002	03	
T0012-004	17170	E			GF1-11	TURBINE RPM	D16002	04	
T0012-005	17171	E			GF1-12	TURBINE RPM	D16002	05	
T0012-006	17172	E			GF1-13	TURBINE RPM	D16002	06	
T0012-007	17173	E			GF1-14	TURBINE RPM	D16002	07	
T0012-008	17174	E			GF1-15	TURBINE RPM	D16002	08	
GP1A0-ZERO	3562	E			GP1A0-28-09-00	ZERO PERCENT REFERENCE			0/5 VOLTS
GP1A0-FULL	3563	E			GP1A0-28-10-00	ONE HUNDRED PERCENT REFERENCE			0/5 VOLTS
GP1B0-ZERO	3564	E			GP1B0-28-09-00	ZERO PERCENT REFERENCE			0/5 VOLTS
GP1B0-FULL	3565	E			GP1A0-28-10-00	ONE HUNDRED PERCENT REFERENCE			0/5 VOLTS


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*****
* TLM CHAN * MEAS NO *
*****
* GP180V13R10-04 * K0130-400 *
* GP180V13R10-05 * K0131-400 *
* GP180V13R10-06 * K0132-400 *
* GP180V13R10-07 * K0133-400 *
* GP180V13R10-08 * K0134-011 *
* GP180V13R10-09 * K0135-011 *
* GP180V13R10-10 * BLANK *
* GP180-14-00-00 * K0065-013 *
* GP180-15-00-00 * K0066-013 *
* GP180-16-00-00 * A0053-011 *
* GP180-17-01-00 * BLANK *
* GP180-17-02-00 * BLANK *
* GP180-17-03-00 * BLANK *
* GP180-17-04-00 * BLANK *
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* GP180-17-06-00 * BLANK *
* GP180-17-07-00 * BLANK *
* GP180-17-08-00 * BLANK *
* GP180-17-09-00 * BLANK *
* GP180-17-10-00 * BLANK *
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* GP180-18-02-00 * BLANK *
* GP180-18-03-00 * BLANK *
* GP180-18-04-00 * BLANK *
* GP180-19-00-00 * K0001-012 *
* GP180-20-00-00 * D0001-001 *
* GP180-21-00-00 * D0001-002 *
* GP180-22-00-00 * D0001-003 *
* GP180-23-00-00 * D0001-004 *
* GP180-24-00-00 * D0001-005 *
* GP180-25-00-00 * D0001-006 *
* GP180-26-00-00 * D0001-007 *
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* GP180-28-08-00 * BLANK *
* GP180-28-09-00 * GP180-ZER *
* GP180-28-10-00 * GP180-FUL *
* GP180-29-01-00 * BLANK *
* GP180-29-02-00 * BLANK *
* GP180-29-03-00 * BLANK *
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* GP180-29-07-00 * BLANK *
* GP180-29-08-00 * BLANK *
* GP180-29-09-00 * BLANK *
* GP180-29-10-00 * BLANK *
*****
* TLM CHAN * MEAS NO *
*****
* GP180-30-01-00 * BLANK *
* GP180-30-02-00 * BLANK *
* GP180-30-03-00 * BLANK *
* GP180-30-04-00 * BLANK *
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* GP180-30-07-00 * BLANK *
* GP180-30-08-00 * BLANK *
* GP180-30-09-00 * BLANK *
* GP180-30-10-00 * BLANK *
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MEASUREMENT NUMBER	DISPLAY P	TELEMETRY REQUEST C	CHANNEL NUMBER	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
BS0080X	*	*	*	EDS ABORT REQUEST A	*	*	*
BS0081X	*	*	*	EDS ABORT REQUEST B	*	*	*
CA1820T	*	*	*	TEMP CREW HS ABL SUR LOC 1A	*	*	-300/850 DEG F
CA1821T	*	*	*	TEMP CREW HS ABL SUR LOC 4A	*	*	-300/850 DEG F
CA1822T	*	*	*	TEMP CREW HS ABL SUR LOC 7A	*	*	-300/850 DEG F
CA1823T	*	*	*	TEMP CREW HS ABL SUR LOC 10A	*	*	-300/850 DEG F
CC0175T	*	*	*	TEMP STATIC INVERTER 1	*	*	25/240 DEG F
CC0176T	*	*	*	TEMP STATIC INVERTER 2	*	*	25/240 DEG F
CC0177T	*	*	*	TEMP STATIC INVERTER 3	*	*	25/240 DEG F
CC0200V	*	*	*	AC VOLTAGE MAIN BUS 1 PHASE A	*	*	0/150 VRMS
CC0203V	*	*	*	AC VOLTAGE MAIN BUS 2 PHASE A	*	*	0/150 VRMS
CC0206V	*	*	*	DC VOLTAGE MAIN BUS A	*	*	0/45 VDC
CC0207V	*	*	*	DC VOLTAGE MAIN BUS B	*	*	0/45 VDC
CC0210V	*	*	*	DC VOLTAGE BATTERY BUS A	*	*	0/45 VDC
CC0211V	*	*	*	DC VOLTAGE BATTERY BUS B	*	*	0/45 VDC
CC0215C	*	*	*	DC CURRENT BATT CHARGER OUT	*	*	0/5 AMP
CC0222C	*	*	*	DC CURRENT BATTERY A	*	*	0/100 AMP
CC0223C	*	*	*	DC CURRENT BATTERY B	*	*	0/100 AMP

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MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
CC0224C	*	*	1104010 12	DC CURRENT BATTERY C	*	*	0/100 AMP
CC0232V	*	*	1103073 12	DC VOLTAGE BATTERY RELAY BUS	*	*	0/45 VDC
CC2962C	*	*	1102042 12	CSM TO LEM CURRENT MONITOR	*	*	0/10 AMP
CD00005V	*	*	1101028 12	DC VOLTAGE PYRO BUS A	*	*	0/40 VDC
CD00006V	*	*	1101017 12	DC VOLTAGE PYRO BUS B	*	*	0/40 VDC
CD00023X	*	*	1104067A12	CM-SM SEP RELAY CLOSE A	*	*	
CD00024X	*	*	1104068A12	CM-SM SEP RELAY CLOSE B	*	*	
CD00123X	*	*	1104067E12	SLA SEPARATION RELAY A	*	*	
CD00124X	*	*	1104068G12	SLA SEPARATION RELAY B	*	*	
CD00130X	*	*	1103065C12	HAND CONTROLLER INPUT A	*	*	
CD00131X	*	*	1103065F12	HAND CONTROLLER INPUT B	*	*	
CD00132X	*	*	1103066A12	EDS ABORT LOGIC INPUT NO 1	*	*	
CD00133X	*	*	1103066B12	EDS ABORT LOGIC INPUT NO 2	*	*	
CD00134X	*	*	1103066D12	EDS ABORT LOGIC INPUT NO 3	*	*	
CD00135X	*	*	11030665G12	EDS ABORT LOGIC OUTPUT A	*	*	
CD00136X	*	*	11030665D12	EDS ABORT LOGIC OUTPUT B	*	*	
CD00170X	*	*	1104067C12	RCS ACTIVATE SIG A	*	*	
CD00171X	*	*	1104068C12	RCS ACTIVATE SIG B	*	*	
CD00173X	*	*	1104067G12	CM RCS PRESS SIG A	*	*	
CD00174X	*	*	1104068E12	CM RCS PRESS SIG B	*	*	

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MEASUREMENT NUMBER	DISPLAY REQUEST	TELEMETRY P C	CHANNEL NUMBER	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
CD0200V	*	*	1101027 12	DC VOLTAGE LOGIC BUS A	*	*	0/40 VDC
CD0201V	*	*	1101025 12	DC VOLTAGE LOGIC BUS B	*	*	0/40 VDC
CJ0230X	*	*	1104097A12	FWD HS JETTISON A	*	*	
CD0231X	*	*	1104099E12	FWD HS JETTISON B	*	*	
CJ1154X	*	*	1103067F12	CSM-LEM LOCK RING SEP RELAY A	*	*	
CJ1155X	*	*	1103067G12	CSM-LEM LOCK RING SEP RELAY B	*	*	
CE0001X	*	*	1105067A12	DROGUE DEPLOY RELAY CLOSE A	*	*	
CE0002X	*	*	1105068F12	DROGUE DEPLOY RELAY CLOSE B	*	*	
CE0003X	*	*	1105067H12	MAIN CHUTE DEPL DRG REL RLY A	*	*	
CE0004X	*	*	1105068C12	MAIN CHUTE DEPL DRG REL RLY B	*	*	
CE0321X	*	*	1105067E12	MAIN CHUTE DISCONNECT RELAY A	*	*	
CE0322X	*	*	1105068H12	MAIN CHUTE DISCONNECT RELAY B	*	*	
CF0001P	*	*	1008084 12	PRESSURE CABIN	*	*	0/17 PSIA
CF0002T	*	*	1011084 12	TEMP CABIN	*	*	40/125 DEG F
CF0003P	*	*	1102009 12	PRESS O2 SUIT TO CABIN DIFF	*	*	+5 IN H2O
CF0005P	*	*	1023084 12	PRESS CO2 PARTIAL	*	*	0/20 MM HG
CF0006P	*	*	1103075 12	PRESS SURGE TANK	*	*	50/1050 PSIA
CF0008T	*	*	1016052 12	TEMP SUIT SUPPLY MANIF	*	*	20/95 DEG F

MEASUREMENT NUMBER	DISPLAY REQUEST	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
CF00090	*	1001052 12	QUANTITY WASTE WATER TANK	*	*	0/100 PCT
CF00100	*	1001084 12	QUAN POTABLE H2O TANK	*	*	0/100 PCT
CF0012P	*	1101057 12	PRESS SUIT DEMAND REG SENSF	*	*	0/17 PSIA
CF0015P	*	1101058 12	PRESS SUIT COMPRESSOR DIFF	*	*	0.0/0.9 PSID
CF0016P	*	1101009 12	PRESS GLYCOL PUMP OUTLET	*	*	0/60 PSIG
CF0017T	*	1045052 12	TEMP GLYCOL EVAP OUTLET STEAM	*	*	20/95 DEG F
CF0018T	*	1004116 12	TEMP GLY EVAP OUTLET LIQUID	*	*	25/75 DEG F
CF00190	*	1023116 12	QUANTITY GLYCOL ACCUM	*	*	0/100 PCT
CF0020T	*	1030116 12	TEMP SPACE RADIATOR OUTLET	*	*	-50/105 DEG F
CF0034P	*	1002052 12	BACK PRESS GLYCOL EVAPORATOR	*	*	.05/.25 PSIA
CF0035R	*	1101049 12	FLOWRATE ECS 02	*	*	.25/1.0 LB/HR
CF0036P	*	1101081 12	PRESS OUTLET 02 REG SUPPLY	*	*	0/150 PSIG
CF0070P	*	1104043 12	PRESS SEC GLYCOL PUMP OUTLET	*	*	0/60 PSIG
CF0071T	*	1104028 12	TEMP SEC EVAP OUTLET LIQUID	*	*	25/75 DEG F
CF00720	*	1016116 12	QUANTITY SEC GLYCOL ACCUM	*	*	0/100 PCT
CF0073P	*	1003084 12	PR SECONDARY EVAP OUT STEAM	*	*	.05/.25 PSIA
CF0120P	*	1034084 12	PRESS H2O AND GLYCOL TANKS	*	*	0/50 PSIA
CF0157R	*	1105012 12	RATE GPRI COLDPATE OUTLET	*	*	125/300 LB/HR
CF0181T	*	1034052 12	TEMP GLYCOL EVAP INLET	*	*	35/100 DEG F
CF0460T	*	1015052 12	TEMP URINE DUMP NOZZLE	*	*	0/100 DEG F
CF0461T	*	1018084 12	TEMP WASTE WATER DUMP NOZZLE	*	*	0/100 DEG F

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MEASUREMENT NUMBER	DISPLAY P REQUEST C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD* NUMBER	TR NO	RANGE/REMARKS
C60001V	*	5101032 12	COMPUTER DIGITAL DATA 40 BITS	*	*	*
C61040V	*	1028084 12	+120 VDC PIPA SUPPLY DC LEVEL	*	*	85/135 VDC
C61110V	*	1017084 12	2.5 VDC TM BIAS	*	*	0/5 VDC
C61201V	*	1031052 12	IMU 28V .8KC 1 PCT 0 DEG RMS	*	*	0/31 VRMS
C61331V	*	1029052 12	3.2KC 28V SUPPLY	*	*	0/32 VRMS
C61513X	*	1103067B12	+28V IMU STANDRY	*	*	*
C61523X	*	1103067C12	+28V CMC OPERATE	*	*	*
C61533X	*	1103067D12	+28V OPTX OPERATE	*	*	*
C62112V	*	1102060 12	IG 1X RESOLVER OUTPUT SIN	*	*	+45 DEG
C62113V	*	1102081 12	IG 1X RESOLVER OUTPUT COS	*	*	45/135 DEG
C62117V	*	1201014 12	IGA SERVO ERROR IN PHASE	*	*	+3.0 VRMS
C62142V	*	1102089 12	MG 1X RESOLVER OUTPUT SIN	*	*	+45 DEG
C62143V	*	1102090 12	MG 1X RESOLVER OUTPUT COS	*	*	45/135 DEG
C62147V	*	1201013 12	MGA SERVO ERROR IN PHASE	*	*	+3.0 VRMS
C62172V	*	1102091 12	OG 1X RESOLVER OUTPUT SINE	*	*	+45 DEG
C62173V	*	1102092 12	OG 1X RESOLVER OUTPUT COS	*	*	45/135 DEG
C62177V	*	1201015 12	OGA SERVO ERROR IN PHASE	*	*	+3.0 VRMS
C62300T	*	1032116 12	PIPA TEMPERATURE	*	*	118/140 DEG F
C63721V	*	1102058 12	SHAFT CDU DAC OUTPUT	*	*	+12.3 VRMS
C63722V	*	1102059 12	TRUNNION CDU DAC OUTPUT	*	*	+12.0 VRMS
C65040X	*	1103067A12	CMC WARNING	*	*	*

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MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
CH3500H			5101062 12	FDAI CMC/SCS ATT ERROR PITCH			+5 DEG
CH3501H			5101063 12	FDAI CMC/SCS ATT ERROR YAW			+5 DEG
CH3502H			1201016 12	FDAI CMC/SCS ATT ERROR ROLL			+5 DEG
CH3503R			1201021 12	FDAI SCS BODY RATE PITCH			+1 DEG/S
CH3504R			1201022 12	FDAI SCS BODY RATE YAW			+1 DEG/S
CH3505R			1201023 12	FDAI SCS BODY RATE ROLL			+1 DEG/S
CH3517H			1201024 12	GIMBAL POSITION PITCH 1 OR 2			+5 DEG
CH3518H			1201046 12	GIMBAL POSITION YAW 1 OR 2			+5 DEG
CH3546X			2201018A12	RCS SOLENOID ACT C3/13/+X			
CH3547X			2201018B12	RCS SOLENOID ACT A4/14/+X			
CH3548X			2201018C12	RCS SOLENOID ACT A3/23/-X			
CH3549X			2201018D12	RCS SOLENOID ACT C4/24/-X			
CH3550X			2201018E12	RCS SOLENOID ACT U3/25/+X			
CH3551X			2201018F12	RCS SOLENOID ACT B4/26/+X			
CH3552X			2201018G12	RCS SOLENOID ACT B3/15/-X			
CH3553X			2201018H12	RCS SOLENOID ACT D4/16/-X			
CH3554X			2201019A12	RCS SOLENOID ACT B1/11/+Z			
CH3555X			2201019E12	RCS SOLENOID ACT U2/22/+Z			
CH3556X			2201019F12	RCS SOLENOID ACT D1/21/-Z			
CH3557X			2201019B12	RCS SOLENOID ACT B2/12/-Z			

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MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
CH3556X	*	*	2201019G12	RCS SOLENOID ACT A1/+Y	*	*	
CH3559X	*	*	2201019C12	RCS SOLENOID ACT C2/+Y	*	*	
CH3560X	*	*	2201019D12	RCS SOLENOID ACT C1/-Y	*	*	
CH3561X	*	*	2201019H12	RCS SOLENOID ACT A2/-Y	*	*	
CH3574X	*	*	1104067D12	TRANSLATIONAL CONTROLLER +XCMD	*	*	
CH3575X	*	*	1104067F12	TRANSLATIONAL CONTROLLER -XCMD	*	*	
CH3576X	*	*	1104067H12	TRANSLATIONAL CONTROLLER +YCMD	*	*	
CH3577X	*	*	1104068F12	TRANSLATIONAL CONTROLLER -YCMD	*	*	
CH3578X	*	*	1104068H12	TRANSLATIONAL CONTROLLER +ZCMD	*	*	
CH3579X	*	*	1104097B12	TRANSLATIONAL CONTROLLER -ZCMD	*	*	
CH3582V	*	*	1201055 12	SCS TVC AUTO COMMAND PITCH	*	*	+10 VDC
CH3583V	*	*	1201053 12	SCS TVC AUTO COMMAND YAW	*	*	+10 VDC
CH3585H	*	*	5101096 12	ROT CONTROL/MTVC PITCH CMD	*	*	+10 DEG
CH3586H	*	*	5101125 12	ROT CONTROL/MTVC YAW CMD	*	*	+10 DEG
CH3587H	*	*	5101126 12	ROT CONTROL ROLL CMD	*	*	+10 DEG
CH3588X	*	*	1101097B12	ATTITUDE DEADBAND MINIMUM	*	*	
CH3590X	*	*	1101097D12	HIGH PRO RATE LIMIT	*	*	
CH3592X	*	*	1101097E12	FOAI SCALE ERROR 5, RATE 5	*	*	
CH3593X	*	*	1101097F12	FOAI SCALE ERR 50/15,RT50/10	*	*	
CH3601X	*	*	1104097C12	DIR RCS SW N01 ENABLE POS	*	*	
CH3602X	*	*	1104097D12	DIR RCS SW N02 ENABLE POS	*	*	
CH3604X	*	*	1101098D12	SPS SOLENOID DRIVER NO. 1	*	*	

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MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
CJ0061J	*	*	2201005 12	EKG CMD MOD PILOT CTR COUCH	*	*	+2.5 MV
CJ0062J	*	*	2201006 12	EKG LUNAR MOD PILOT RH COUCH	*	*	+2.5 MV
CJ0200R	*	*	5101064 12	RESP RATE CMD LH COUCH	*	*	+5 OHM
CJ0201R	*	*	5101093 12	RESP RATE CM PILOT CTR COUCH	*	*	+5 OHM
CJ0202R	*	*	5101094 12	RESP RATE LM PILOT RH COUCH	*	*	+5 OHM
CK0026A	*	*	1201045 12	CM ACCEL X-AXIS	*	*	-2/10 G
CK0027A	*	*	1201047 12	CM ACCEL Y-AXIS	*	*	+2 G
CK9028A	*	*	1201040 12	CM ACCEL Z-AXIS	*	*	+2 G
CL9001K	*	*	1036116 12	TEIC DOSE RATE-EXP D008	*	*	0/5 VDC
CL9002K	*	*	1037116 12	PROT ENERGY-DELTA E1-EXP D008	*	*	0/5 VDC
CL9003K	*	*	1031116 12	PROT ENERGY-DELTA E2-EXP D008	*	*	0/5 VDC
CL9004K	*	*	1035116 12	PROT ENERGY-DELTA E3-EXP D008	*	*	0/5 VDC
CL9005K	*	*	1033116 12	PROT ENERGY-DELTA E4-EXP D008	*	*	0/5 VDC
CL9006K	*	*	1034116 12	PROT ENERGY-DELTA E5-EXP D008	*	*	0/5 VDC
CL9007K	*	*	1036116 12	PROT ANTICOINCIDENCE-EXP D008	*	*	0/5 VDC
CL9008K	*	*	1048116 12	ALPHA PARTICLE COUNT-EXP D008	*	*	0/5 VDC
CL9009T	*	*	1047116 12	TEIC TEMP SENSOR-EXP D008	*	*	-40/140 DEG F

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MEASUREMENT NUMBER	DISPLAY P REQUEST C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
CR0001P	*	1101012 12	HE PRESS TANK 1	*	*	0/5000 PSIA
CR0002P	*	1101042 12	HE PRESS TANK 2	*	*	0/5000 PSIA
CR0003T	*	1045116 12	HE TEMP TANK 1	*	*	0/300 DEG F
CR0004T	*	1049116 12	HE TEMP TANK 2	*	*	0/300 DEG F
CR0035P	*	1101010 12	PRESS CM-RCS HE MANIFOLD 1	*	*	0/400 PSIA
CR0036P	*	1101011 12	PRESS CM-RCS HE MANIFOLD 2	*	*	0/400 PSIA
CS0150X	*	1101098F12	MASTER CAUTION-WARNING ON	*	*	
CS0220T	*	1008052 12	TEMP DOCKING PROBE CYL	*	*	-100/300 DEG F
CT0012X	*	1103006E12	DSE TAPE MOTION MONITOR	*	*	
CT0015V	*	1105081 12	SIG COND POS SUPPLY VOLTS	*	*	0/22 VDC
CT0016V	*	1102105 12	SIG COND NEG SUPPLY VOLTS	*	*	0/22 VDC
CT0018V	*	1105123 12	SENSOR EXCITATION 10 VOLTS	*	*	0/11 VDC
CT0120X	*	1001020 12	PCM BIT RATE CHANGE 8 BIT	*	*	
CT0125V	*	1102043 12	PCM HI LEVEL 85 PERCENT REF	*	*	
CT0126V	*	1101026 12	PCM HI LEVEL 15 PERCENT REF	*	*	
CT0145F	*	1101065 12	CTE TIME FROM LAUNCH 32 BIT	*	*	
CT0262V	*	5101100 12	UDL SYS VALIDITY SIGNAL 4-BIT	*	*	

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MEASUREMENT NUMBER	DISPLAY* P REQUEST* C NUMBER	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD* TR NUMBER* NO	RANGE/REMARKS
CT0340X	*	1101099E12	PCM SYNC SOURCE EXT OR INT	*	
CT0620E	*	1104044 12	S-BAND REC 1-2 AGC VOLTAGE	*	
CT0640F	*	1102049 12	S-BAND RCVR 1-2 STATIC PH ERR	*	
CT0645X	*	1104097E12	S-BAND OMNI ANTENNA A SELECT	*	0/5 VDC
CT0646X	*	1104097F12	S-BAND OMNI ANTENNA B SELECT	*	0/5 VDC
CT0647X	*	1104097G12	S-BAND OMNI ANTENNA C SELECT	*	0/5 VDC
CT0648X	*	1104097H12	S-BAND OMNI ANTENNA D SELECT	*	0/5 VDC
CT9019X	*	1101099F12	SIG CONDR POWR SUPPLY AUX/NORM	*	0/5 VDC
LS0200H	*	1102057 12	ANGLE OF ATTACK	*	0/150 PCT
SC0030Q	*	1047084 12	QUANTITY H2 TANK 1	*	0/100 PCT
SC0031Q	*	1045084 12	QUANTITY H2 TANK 2	*	0/100 PCT
SC0032Q	*	1046052 12	QUANTITY O2 TANK 1	*	0/100 PCT
SC0033Q	*	1046084 12	QUANTITY O2 TANK 2	*	0/100 PCT
SC0037P	*	1104075 12	PRESS O2 TANK 1	*	45/1000 PSIA
SC0038P	*	1104076 12	PRESS O2 TANK 2	*	45/1000 PSIA
SC0039P	*	1104041 12	PRESS H2 TANK 1	*	0/280 PSIA
SC0040P	*	1104042 12	PRESS H2 TANK 2	*	0/280 PSIA
SC0041T	*	1018116 12	TEMP O2 TANK 1	*	-325/80 DEG F

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MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
SC0042T	*	*	1019116 12	TEMP O2 TANK 2	*	*	-325/80 DEG F
SC0043T	*	*	1105044 12	TEMP H2 TANK 1	*	*	-425/-200 DEG F
SC0044T	*	*	1046116 12	TEMP H2 TANK 2	*	*	-425/-200 DEG F
SC0070T	*	*	1105074 12	TEMP O2 TANK 1 HEATERS	*	*	-300/600 DEG F
SC0071T	*	*	1105075 12	TEMP O2 TANK 2 HEATERS	*	*	-300/600 DEG F
SC2066P	*	*	1102108 12	O2 PRESSURE FC 1 REGULATED	*	*	0/75 PSIA
SC2068P	*	*	1102121 12	O2 PRESSURE FC 3 REGULATED	*	*	0/75 PSIA
SC2069P	*	*	1102122 12	H2 PRESSURE FC 1 REGULATED	*	*	0/75 PSIA
SC2071P	*	*	1102124 12	H2 PRESSURE FC 3 REGULATED	*	*	0/75 PSIA
SC2081T	*	*	1011116 12	TEMP FC 1 COND EXHAUST	*	*	145/250 DEG F
SC2083T	*	*	1015116 12	TEMP FC 3 COND EXHAUST	*	*	145/250 DEG F
SC2084T	*	*	1042116 12	TEMP FC 1 SKIN	*	*	65/550 DEG F
SC2086T	*	*	1020116 12	TEMP FC 3 SKIN	*	*	65/550 DEG F
SC2087T	*	*	1024116 12	TEMP FC 1 RADIATOR OUTLET	*	*	-50/300 DEG F
SC2089T	*	*	1026116 12	TEMP FC 3 RADIATOR OUTLET	*	*	-50/300 DEG F
SC2090T	*	*	1044052 12	RAD INLET TEMP FC 1	*	*	-50/300 DEG F
SC2092T	*	*	1023052 12	RAD INLET TEMP FC 3	*	*	-50/300 DEG F
SC2112C	*	*	1103043 12	DC CURRENT FC 2 DESCENT BAT 2	*	*	0/100 AMP
SC2113C	*	*	1103012 12	DC CURRENT FC 1 DESCENT BAT 1	*	*	0/100 AMP
SC2115C	*	*	1103044 12	DC CURRENT FC 3 DESCENT BAT 3	*	*	0/100 AMP
SC2139R	*	*	1103017 12	FLOW RATE H2 FC 1	*	*	0.0/.20 LB/HR
SC2141R	*	*	1103026 12	FLOW RATE H2 FC 3	*	*	0.0/.20 LB/HR

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MEASUREMENT NUMBER	DISPLAY REQUEST	P C CHANNEL	TELEMETRY	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
SC2142R	*	*	1103027 12	FLOW RATE 02 FC 1	*	*	0.0/1.6 LB/HR
SC2144R	*	*	1103041 12	FLOW RATE 02 FC 3	*	*	0.0/1.6 LB/HR
SC2160X	*	*	1105066A12	PH FACTOR WATER COND FC 1	*	*	
SC2162X	*	*	1105066C12	PH FACTOR WATER COND FC 3	*	*	
SC9209V	*	*	1102044 12	DC VOLTAGE DESCENT BATTERY 1	*	*	0/45 VDC
SC9210V	*	*	1105076 12	DC VOLTAGE DESCENT BATTERY 2	*	*	0/45 VDC
SC9211V	*	*	1105041 12	DC VOLTAGE DESCENT BATTERY 3	*	*	0/45 VDC
SC9217T	*	*	1002116 12	TEMP DESCENT BATTERY 1	*	*	0/200 DEG F
SC9218T	*	*	1006116 12	TEMP DESCENT BATTERY 2	*	*	0/200 DEG F
SC9219T	*	*	1029116 12	TEMP DESCENT BATTERY 3	*	*	0/200 DEG F
SF0260T	*	*	1041116 12	TEMP PRIMARY RADIATOR INLET	*	*	55/120 DEG F
SF0262T	*	*	1021052 12	TEMP SECONDARY RADIATOR INLET	*	*	55/120 DEGF
SF0263T	*	*	1021084 12	TEMP SEC RADIATOR OUTLET	*	*	30/70 DEG F
SFU266X	*	*	1101098H12	RADIATOR FLOW CONT SYS 1 OR 2	*	*	
SP0001P	*	*	1101041 12	HE PRESS TANK	*	*	0/5000 PSIA
SP0003P	*	*	1105042 12	PRESS OXIDIZER TANKS	*	*	0/250 PSIA
SP0006P	*	*	1105043 12	PRESS FUEL TANKS	*	*	0/250 PSIA
SP0022H	*	*	1101108 12	POSITION FUEL/OX VLV 1 POT B	*	*	0/90 DEG

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MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
SP0023H	*	*	1101113 12	POSITION FUEL/OX VLV 2 POT B	*	*	0/90 DEG
SP0024H	*	*	1101121 12	POSITION FUEL/OX VLV 3 POT B	*	*	0/90 DEG
SP0025H	*	*	1101122 12	POSITION FUEL/OX VLV 4 POT B	*	*	0/90 DEG
SP0048T	*	*	1026084 12	TEMP ENG FUEL FEED LINE	*	*	0/200 DEG F
SP0049T	*	*	1040116 12	TEMP ENG OX FEED LINE	*	*	0/200 DEG F
SP0055T	*	*	1101073 12	TEMP SPS OX SMP TK SURF BAY 2	*	*	0/150 DEG F
SP0056T	*	*	1101074 12	TEMP 1 FUEL DISTRIBUTION LINK	*	*	0/150 DEG F
SP0062T	*	*	1017052 12	ENG INJECTOR FLANGE TEMP NO 2	*	*	0/590 DEG F
SP0600P	*	*	1004052 12	SPS PRPLNT TKS N2A PRESS	*	*	0/5000 PSIA
SP0601P	*	*	1004084 12	SPS PRPLNT TKS N2B PRESS	*	*	0/5000 PSIA
SP0661P	*	*	1201054 12	PRESS ENGINE CHAMBER	*	*	0/150 PSIA
SP0930P	*	*	1105027 12	PRESS FUEL SM/ENG INTERFACE	*	*	0/300 PSIA
SP0931P	*	*	1105059 12	PRESS OX SM/ENG INTERFACE	*	*	0/300 PSIA
SP0907Q	*	*	1019084 12	QUAN OX SUMP TNK-AUX	*	*	0/100 PCT
SP0908Q	*	*	1020052 12	QUAN OX SMP TANK-PRI	*	*	0/60 PCT
SP0909Q	*	*	1020084 12	QUAN FUEL SMP TNK-AUX	*	*	0/100 PCT
SP0910Q	*	*	1019052 12	QUAN FUEL SMP TNK-PRI	*	*	0/60 PCT
SP0912T	*	*	1026052 12	TEMP OXIDIZER SMP TNK AFT DOME	*	*	0/150 DEG F
SP0914T	*	*	1017116 12	TEMP OXIO SMP TNK OUTBOARD	*	*	0/150 DEG F
SP0916T	*	*	1044116 12	TEMP OXIO FEED LINE	*	*	0/150 DEG F
SP0917T	*	*	1039116 12	TMP SPS HE PRESSURIZATION PNL	*	*	0/200 DEG F
SP0918T	*	*	1025116 12	TMP FU TK HE LIE CK VLV BRKT	*	*	0/150 DEG F

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MEASUREMENT NUMBER	DISPLAY* P REQUEST* C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD* TR NUMBER* NO	RANGE/REMARKS
SP9019T	*	1002084 12	TEMP OXID TK HE LNE CK VLV BRKT	*	0/150 DEG F
SP9020T	*	1003116 12	TMP SPS ENGINE VLV BODY FUEL	*	0/150 DEG F
SP9027T	*	1003052 12	TMP SPS HE TNK UPPER SURFACE	*	0/200 DEG F
SP9030T	*	1021116 12	TMP SPS OX TNK LWR SURF-PVT	*	0/150 DEG F
SP9031T	*	1001116 12	TMP SPS FUEL TNK LWR SURF-PVT	*	0/150 DEG F
SP9101T	*	1027116 12	TMP ENGINE INJECTOR OX MANF	*	0/50 DEG F
SP9102T	*	1028116 12	TMP ENGINE INJECTOR FUEL MANF	*	0/50 DEG F
SR5001P	*	1101043 12	HE PRESS TANK A	*	0/5000 PSIA
SR5002P	*	1101044 12	HE PRESS TANK B	*	0/5000 PSIA
SR5003P	*	1101075 12	HE PRESS TANK C	*	0/5000 PSIA
SR5004P	*	1101076 12	HE PRESS TANK D	*	0/5000 PSIA
SR5013T	*	1036084 12	HE TEMP TANK A	*	0/100 DEG F
SR5014T	*	1042084 12	HE TEMP TANK B	*	0/100 DEG F
SR5015T	*	1030052 12	HE TEMP TANK C	*	0/100 DEG F
SR5016T	*	1035084 12	HE TEMP TANK D	*	0/100 DEG F
SR5025Q	*	1009084 12	QUAN SM RCS PRO SYS A	*	0/100 PCT
SR5026Q	*	1010084 12	QUAN SM RCS PRO SYS B	*	0/100 PCT
SR5027Q	*	1011052 12	QUAN SM RCS PRO SYS C	*	0/100 PCT
SR5028Q	*	1012084 12	QUAN SM RCS PRO SYS D	*	0/100 PCT
SR5065T	*	1005116 12	TEMP ENGINE PACKAGE A	*	0/300 DEG F

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MEASUREMENT NUMBER	DISPLAY REQUEST	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
SR5066T	*	*	1008116 12	TEMP ENGINE PACKAGE B	*	*	0/300 DEG F
SR5067T	*	*	1009116 12	TEMP ENGINE PACKAGE C	*	*	0/300 DEG F
SR5068T	*	*	1007084 12	TEMP ENGINE PACKAGE D	*	*	0/300 DEG F
SR5073T	*	*	1012052 12	TEMP PRI FU TK OUT SURF QUAD A	*	*	0/150 DEG F
SR5074T	*	*	1013052 12	TEMP PRI FU TK OUT SURF QUAD B	*	*	0/150 DEG F
SR5075T	*	*	1013084 12	TEMP PRI FU TK OUT SURF QUAD C	*	*	0/150 DEG F
SR5076T	*	*	1014052 12	TEMP PRI FU TK OUT SURF QUAD D	*	*	0/150 DEG F
SR5729P	*	*	1102017 12	A HE MANIFOLD PRESS	*	*	0/400 PSIA
SR5733P	*	*	1102011 12	OX MANIFOLD PR SYS A	*	*	0/300 PSIA
SR5737P	*	*	1103074 12	FUEL MANIFOLD PR SYS A	*	*	0/400 PSIA
SR5776P	*	*	1102025 12	B HE MANIFOLD PRESS	*	*	0/400 PSIA
SR5780P	*	*	1102041 12	OX MANIFOLD PR SYS B	*	*	0/300 PSIA
SR5784P	*	*	1103076 12	FUEL MANIFOLD PR SYS B	*	*	0/400 PSIA
SR5817P	*	*	1102016 12	C HE MANIFOLD PRESS	*	*	0/400 PSIA
SR5820P	*	*	1102073 12	OX MANIFOLD PR SYS C	*	*	0/300 PSIA
SR5821P	*	*	1103011 12	OX MANIFOLD PR SYS D	*	*	0/300 PSIA
SR5822P	*	*	1104011 12	FUEL MANIFOLD PR SYS C	*	*	0/400 PSIA
SR5823P	*	*	1104012 12	FUEL MANIFOLD PR SYS D	*	*	0/400 PSIA
SR5830P	*	*	1103042 12	D HE MANIFOLD PRESS	*	*	0/400 PSIA
SR9216T	*	*	1010116 12	TMP PSM FDLN MTG BRKT QUAD A	*	*	0/150 DEG F
SR9316T	*	*	1013116 12	TMP PSM FDLN MTG BRKT QUAD B	*	*	0/150 DEG F
SR9416T	*	*	1014116 12	TMP PSM FDLN MTG BRKT QUAD C	*	*	0/150 DEG F

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TLM CHAN	MEAS NO	TLM CHAN	MEAS NO	TLM CHAN	MEAS NO	TLM CHAN	MEAS NO
2201005 12	CJ0061J	1101026 12	CT0126V	1024052 12	CA1821T	1105067E12	CE0321X
2201006 12	CJ0062J	1102026 12	SR7404P	1026052 12	SP9012T	1105067H12	CE0003X
2201007 12	CJ0063J	1103026 12	SC2141R	1027052 12	CA1823T	1102068D12	CH3607X
2201008 12	CH3666C	1101027 12	C00200V	1029052 12	C61331V	1102068E12	CH3607X
1101009 12	CF0016P	1103027 12	SC2142R	1030052 12	SK5015T	1104068A12	CH3607X
1102009 12	CF0003P	1105027 12	SP0905V	1031052 12	C61201V	1104068C12	CH3607X
1103009 12	CC0215C	1101028 12	CU0005V	1034052 12	CF0181T	1104068E12	CH3607X
1104009 12	CC0223C	1104028 12	CF0071T	1036052 12	CF0177T	1104068F12	CH3607X
1101010 12	CH0035P	1101032 12	CH0001V	1044052 12	SC2090T	1104068G12	CH3607X
1103010 12	CC0222C	1101041 12	SP0011P	1045052 12	CF0017T	1104068H12	CH3607X
1104010 12	CC0224C	1102041 12	SR5780Q	1046052 12	SC0032Q	1105068C12	CH3607X
1101011 12	CR0036P	1103041 12	SC2144R	1049052 12	SK9803T	1105068D12	CH3607X
1102011 12	SR5733P	1104041 12	SC0039P	1050052 12	SK9803T	1105068E12	CH3607X
1103011 12	SR5821P	1105041 12	SC5211V	1201053 12	CH3583V	1101073 12	CH3607X
1104011 12	SR5822P	1101042 12	CR0002P	1201054 12	SP0561P	1102073 12	CH3607X
1105011 12	CR0000V	1102042 12	CC2962C	1201055 12	CH3582V	1103073 12	CH3607X
1101012 12	CR0001P	1103042 12	SR9806P	1201056 12	CH3667C	1105073 12	CH3607X
1102012 12	SR9807P	1104042 12	SR5330P	1101057 12	CF0016P	1101074 12	CH3607X
1103012 12	SC2115C	1105042 12	SC0904P	1102057 12	SC0200R	1102074 12	CH3607X
1104012 12	CF0157R	1101043 12	SR5001P	1101058 12	CF0013P	1103074 12	CH3607X
1105012 12	C62147V	1102043 12	CT0125P	1102058 12	C63721V	1105074 12	CH3607X
1201013 12	C62117V	1103043 12	SC0112C	1103059 12	CF0013P	1101075 12	CH3607X
1201014 12	C62177V	1104043 12	CF0070P	1103059 12	SP0931P	1102075 12	CH3607X
1201015 12	CH3502V	1105043 12	SP0005P	1102060 12	C62112V	1103075 12	CH3607X
1101016 12	SR5017P	1101044 12	SP0005P	1101062 12	CH3500V	1104075 12	CH3607X
1102016 12	SR5017P	1102044 12	SC9204V	1101063 12	CH3501H	1105075 12	CH3607X
1103016 12	SR5729P	1103044 12	SC2115C	1101064 12	CJ0200R	1101076 12	CH3607X
1104016 12	SC2139R	1104044 12	CT0620E	1101065 12	CT0145F	1102076 12	CH3607X
2201018A12	CH3549X	1105044 12	SC0043T	1103065C12	CT00130X	1103076 12	CH3607X
2201018B12	CH3547X	1201045 12	CK0027A	1103065D12	CD0135X	1104076 12	CH3607X
2201018C12	CH3548X	1201046 12	CH3518H	1103065E12	CD0135X	1105076 12	CH3607X
2201018D12	CH3550X	1201047 12	CK0027A	1103065F12	CD0135X	1101081 12	CH3607X
2201018E12	CH3551X	1201048 12	CK0023A	1103066A12	CD0135X	1102081 12	CH3607X
2201018F12	CH3552X	1101049 12	CF0035P	1103066B12	CD0135X	1105081 12	CH3607X
2201018G12	CH3553X	1102049 12	CT0640F	1103066C12	CD0135X	1101084 12	CH3607X
2201018H12	CH3554X	1001052 12	CF0009Q	1103066D12	CD0135X	1102084 12	CH3607X
2201018I12	CH3555X	1001052 12	CF0009Q	1103066E12	CD0135X	1103084 12	CH3607X
2201019A12	CH3556X	1002052 12	CF0034P	1103066F12	CD0135X	1104084 12	CH3607X
2201019B12	CH3557X	1003052 12	SP9027T	1103066G12	CD0135X	1105084 12	CH3607X
2201019C12	CH3558X	1004052 12	SP0600P	1103066H12	CD0135X	1106084 12	CH3607X
2201019D12	CH3559X	1008052 12	SC0201T	1103066I12	CD0135X	1107084 12	CH3607X
2201019E12	CH3560X	101052 12	SR5027Q	1103066J12	CD0135X	1108084 12	CH3607X
2201019F12	CH3561X	1012052 12	SR5073T	1103066K12	CD0135X	1109084 12	CH3607X
2201019G12	CH3562X	1013052 12	SK5074T	1103066L12	CD0135X	1101084 12	CH3607X
2201019H12	CH3563X	1014052 12	SR5076T	1103066M12	CD0135X	1102084 12	CH3607X
2201019I12	CH3564X	1015052 12	CF0060T	1103066N12	CD0135X	1103084 12	CH3607X
1001020 12	CT0120X	1016052 12	CF0060T	1103066O12	CD0135X	1104084 12	CH3607X
1201021 12	CH3503J	1017052 12	CF0060T	1103066P12	CD0135X	1105084 12	CH3607X
1201022 12	CH3504J	1018052 12	SP0062T	1103066Q12	CD0135X	1106084 12	CH3607X
1201023 12	CH3505J	1019052 12	SP0010Q	1103066R12	CD0135X	1107084 12	CH3607X
1201024 12	CH3506J	1020052 12	SP0008Q	1103066S12	CD0135X	1108084 12	CH3607X
1101025 12	CO0201V	1021052 12	SP0008Q	1103066T12	CD0135X	1109084 12	CH3607X
1102025 12	SR5770P	1023052 12	SC2092T	1103066U12	CD0135X	1101084 12	CH3607X

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TLM CHAN	MEAS ID	TLM CHAN	MEAS ID	TLM CHAN	MEAS ID	TLM CHAN	MEAS ID
1023004 12	CF0002P	1101099C12	CH3642X	1045116 12	CR0003T	1045116 12	CR0003T
1025008 12	CA1822T	1101099D12	CH3642X	1046116 12	CR0004T	1046116 12	CR0004T
1026008 12	SP0046T	1101099E12	CH3642X	1047116 12	CL9009T	1047116 12	CL9009T
1034008 12	CF0104P	1101099F12	CH3642X	1048116 12	CL9009T	1048116 12	CL9009T
1035008 12	SR5016T	5101100 12	CT0223X	1049116 12	CR0004T	1049116 12	CR0004T
1036008 12	SR5013T	1102105 12	CT0223X	1050116 12	SR9516T	1050116 12	SR9516T
1042008 12	SR5014T	1102107 12	CT0223X	1101121 12	SP0024H	1101121 12	SP0024H
1045008 12	SC00330	1101108 12	SC2066P	1101122 12	SC2063P	1101122 12	SC2063P
1046008 12	SC00330	1102108 12	SC2066P	1102122 12	SC2069P	1102122 12	SC2069P
1047008 12	SC00330	1101113 12	SP0023H	1105123 12	CT0018V	1105123 12	CT0018V
1049008 12	SR9802T	1001116 12	SP9031T	1102124 12	SC2071P	1102124 12	SC2071P
1050008 12	SR9809T	1002116 12	SC9217T	5101125 12	CH3586H	5101125 12	CH3586H
1101089 12	CC0210V	1003116 12	SP9020T				
1102089 12	CC0214V	1004116 12	CF0018T				
1102090 12	CC0214V	1005116 12	SR5065T				
1101091 12	CC0211V	1006116 12	SC9218T				
1102091 12	CC0217V	1007116 12	CC0175T				
1102092 12	CC0217V	1008116 12	SR5066T				
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5101094 12	CJ0201R	1010116 12	SR9216T				
5101096 12	CH3585H	1011116 12	SC2081T				
1101097 12	CH3585H	1013116 12	SR9316T				
1101097D12	CH3592X	1014116 12	SR9416T				
1101097E12	CH3592X	1015116 12	SC2083T				
1101097F12	CH3592X	1016116 12	CF0072Q				
1101097G12	CH3622X	1017116 12	SP9014T				
1104097A12	CD0233X	1019116 12	SC0042T				
1104097B12	CH3579X	1020116 12	SC2086T				
1104097C12	CH3601X	1021116 12	SP9030T				
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1104097E12	CT0645X	1024116 12	SC2087T				
1104097F12	CT0645X	1025116 12	SP9018T				
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1101098B12	BS0081X	1030116 12	CF0020T				
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1104098E12	CH3615X	1039116 12	SP9017T				
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1104098G12	CH3610X	1041116 12	SC2060T				
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